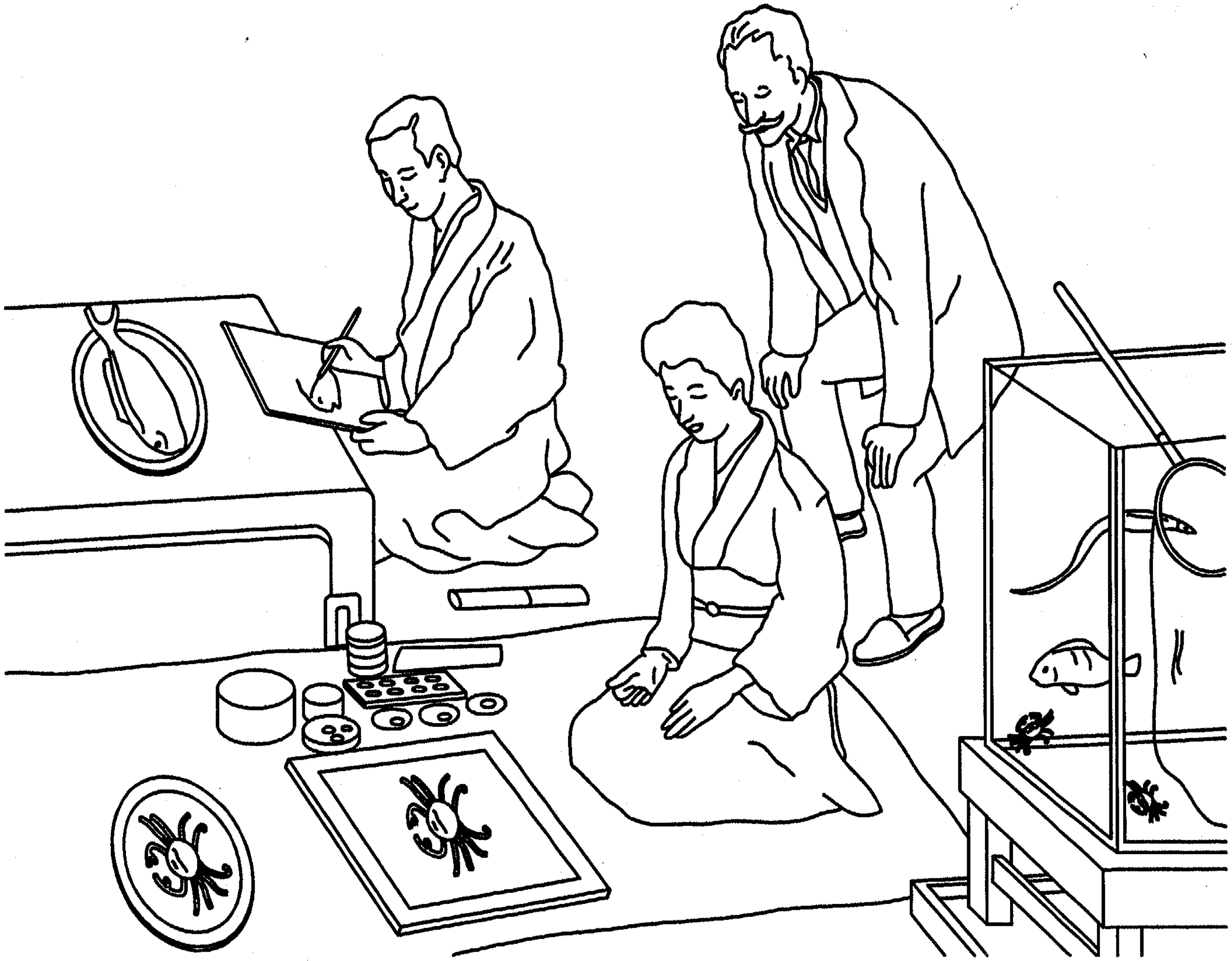


魚器作成の図

FIG. 1
PRIOR ART

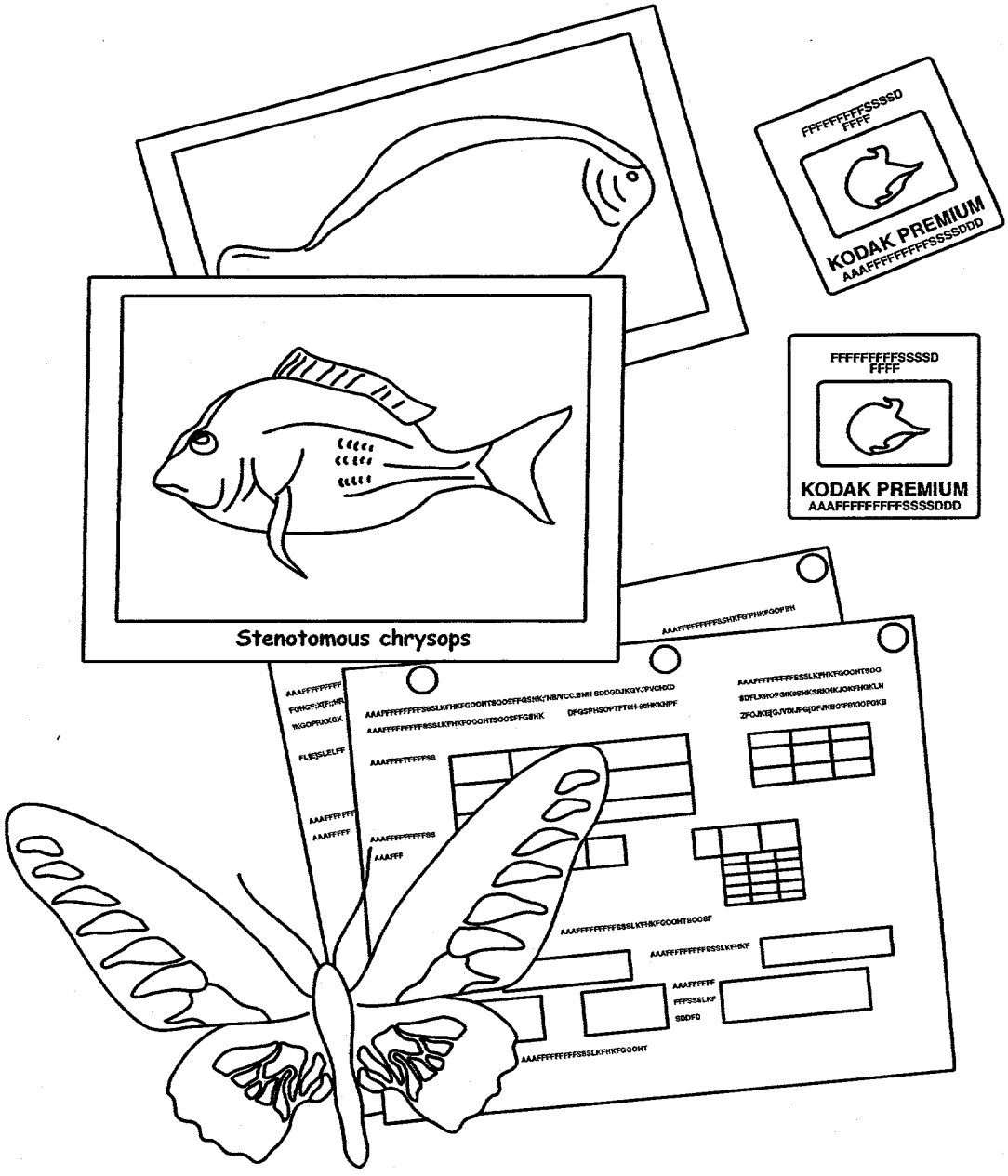


FIG. 2
PRIOR ART

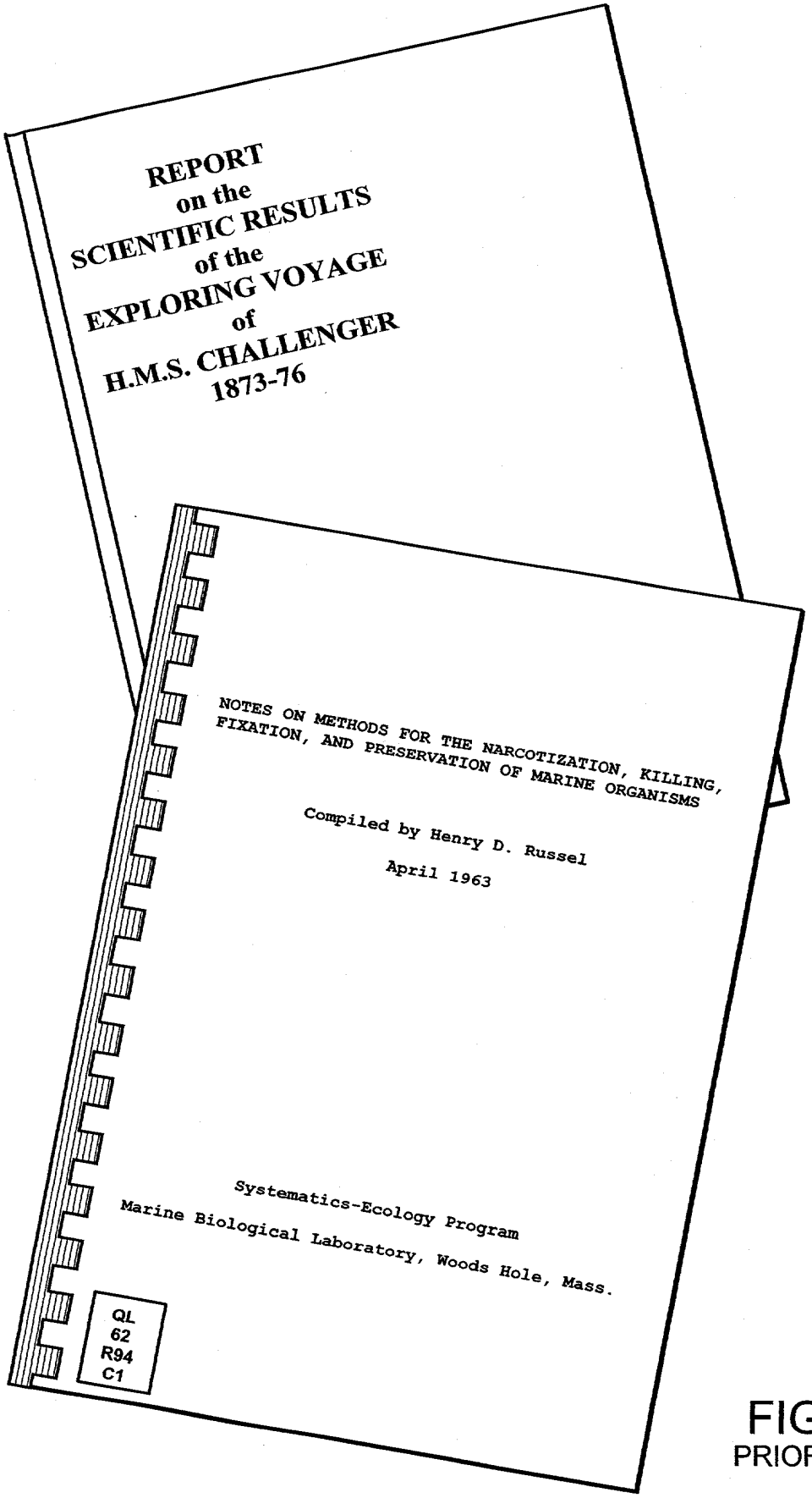


FIG. 3
PRIOR ART

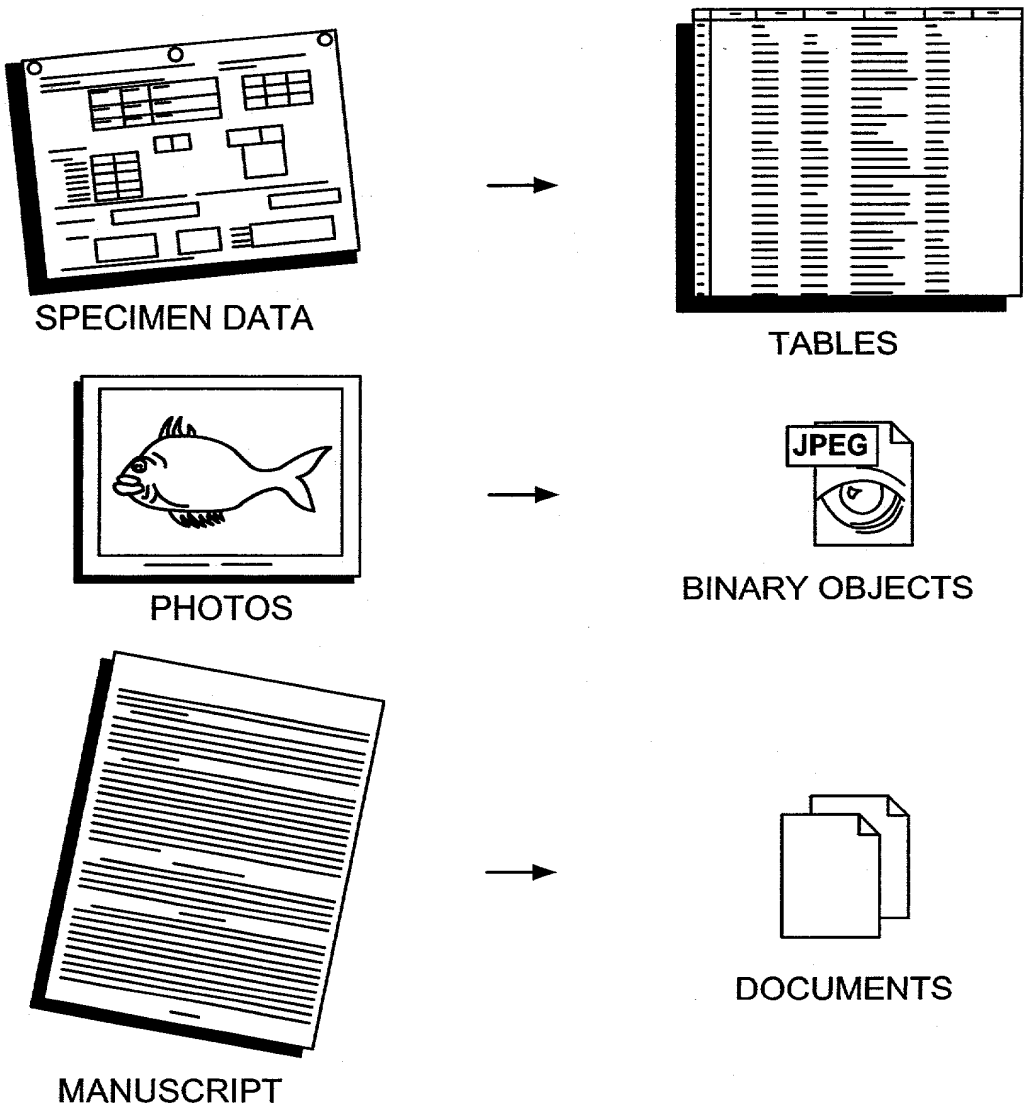


FIG. 4
PRIOR ART

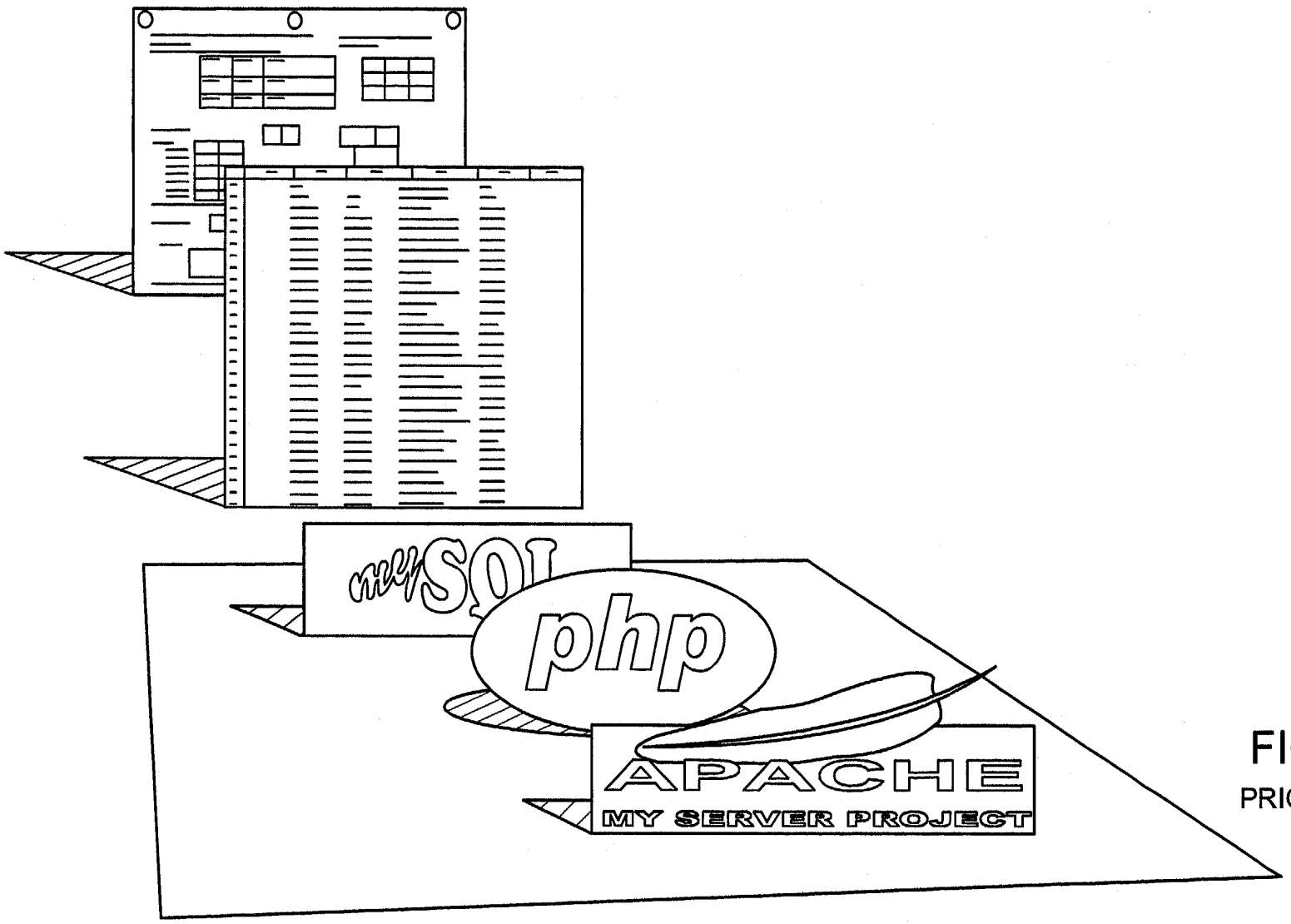


FIG. 5
PRIOR ART

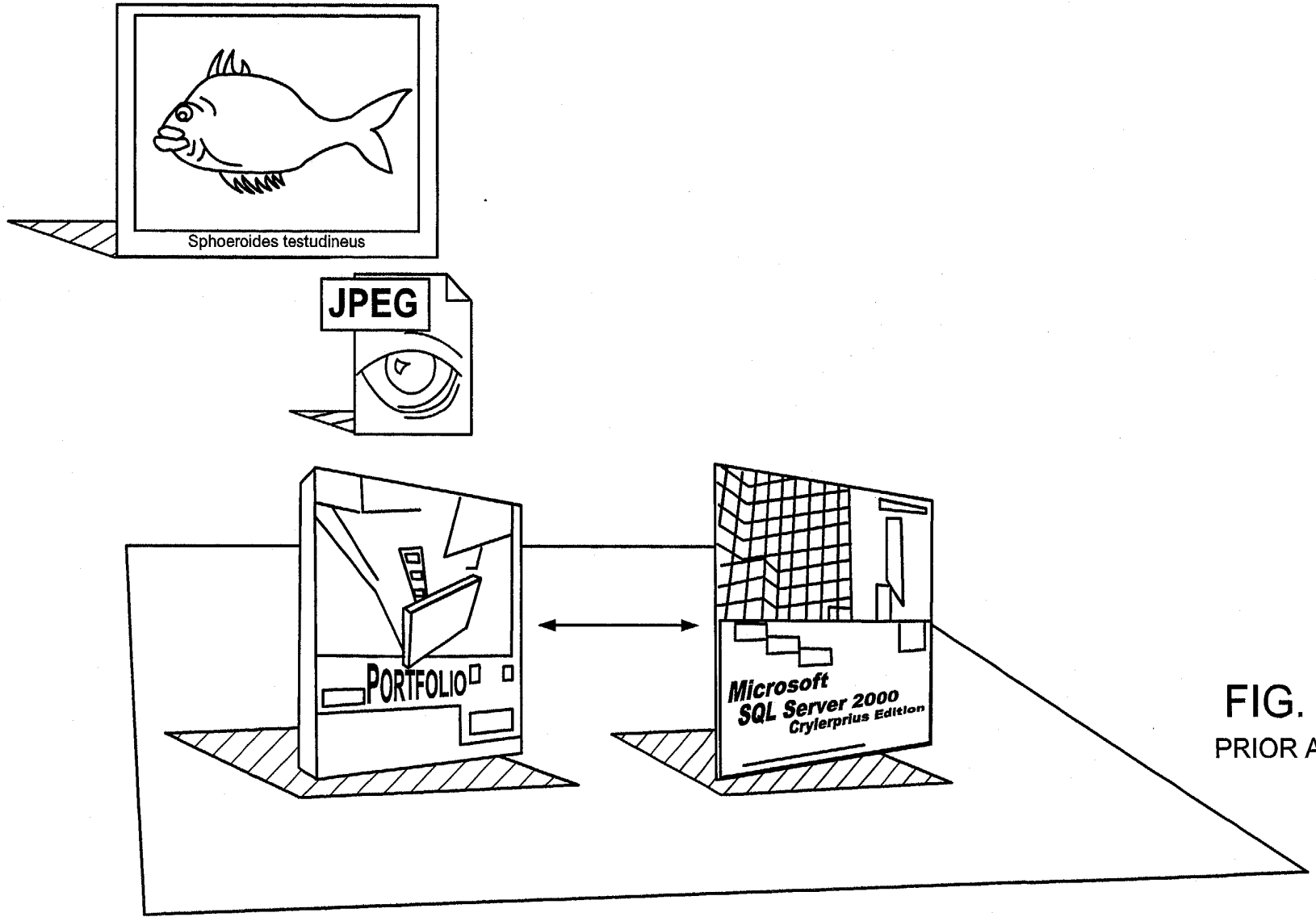


FIG. 6
PRIOR ART

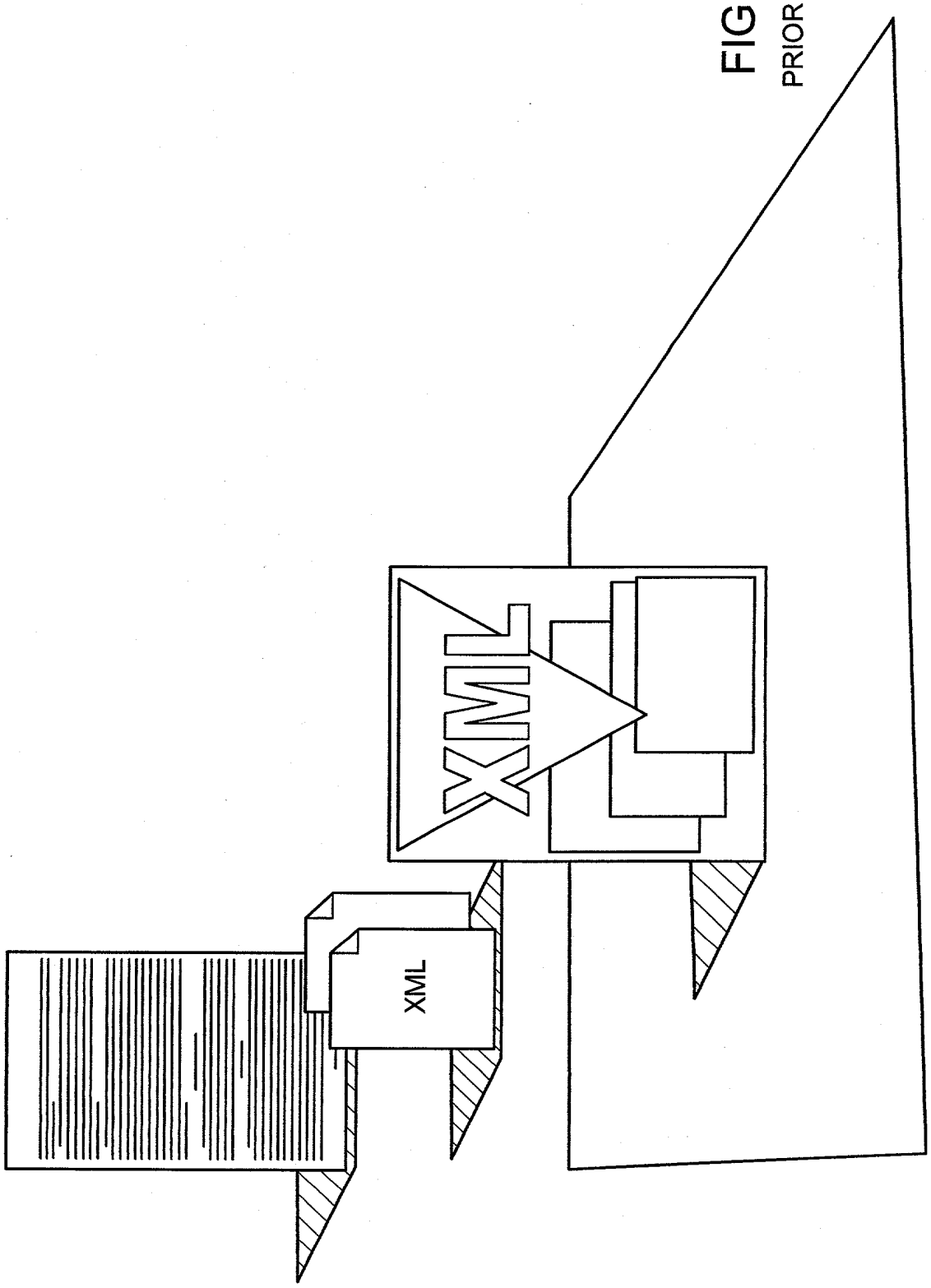


FIG. 7
PRIOR ART

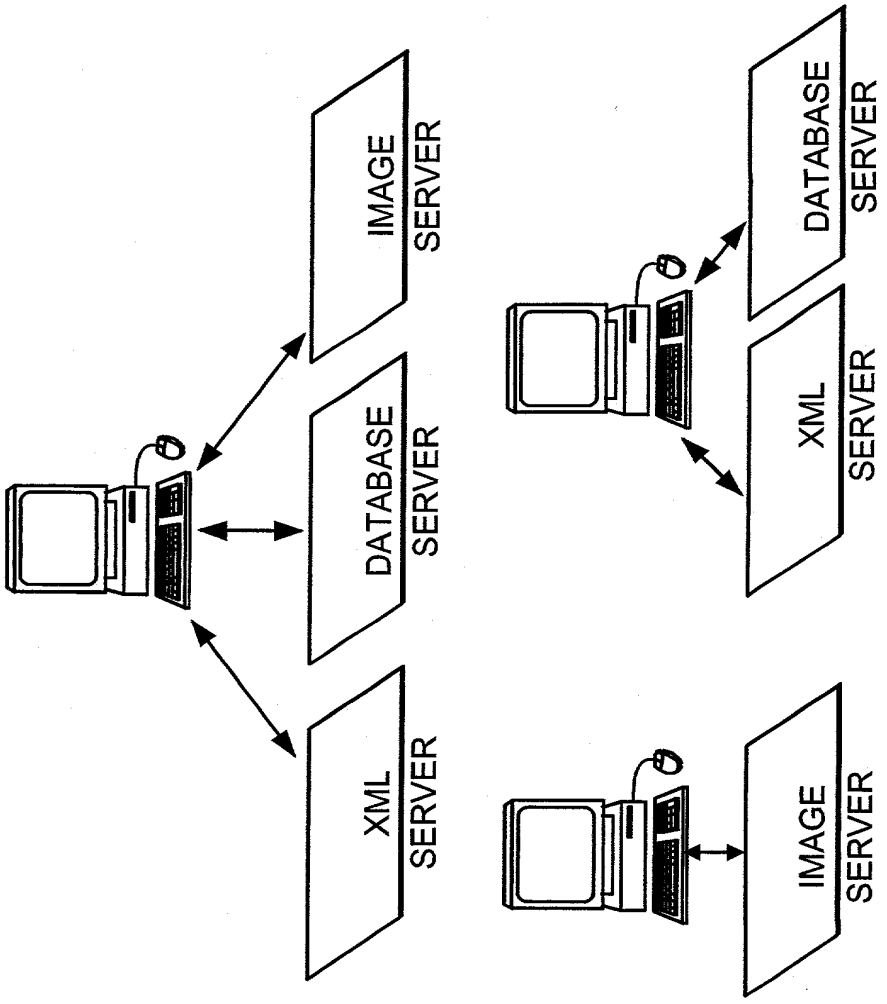


FIG. 8
PRIOR ART

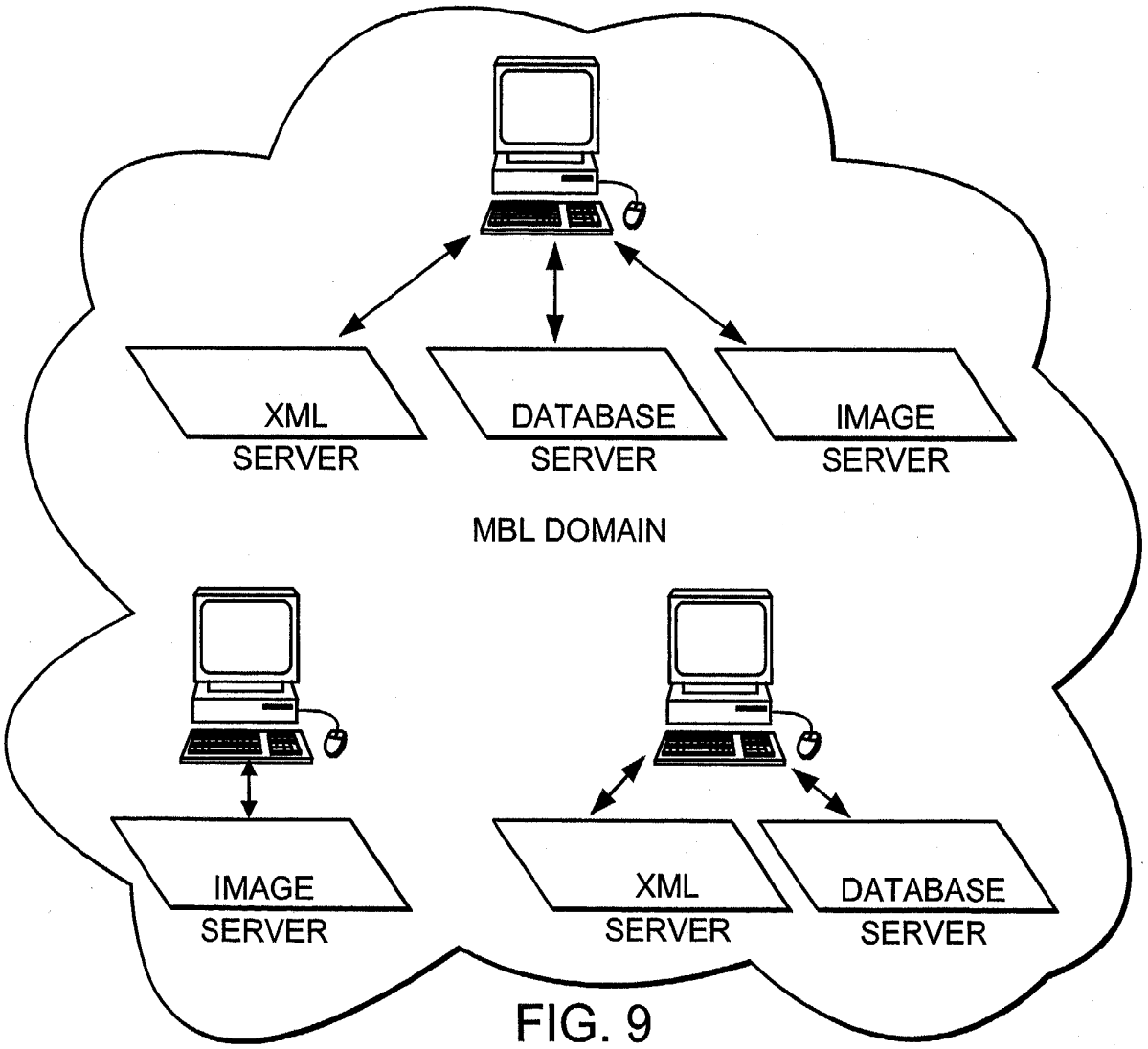


FIG. 9
PRIOR ART

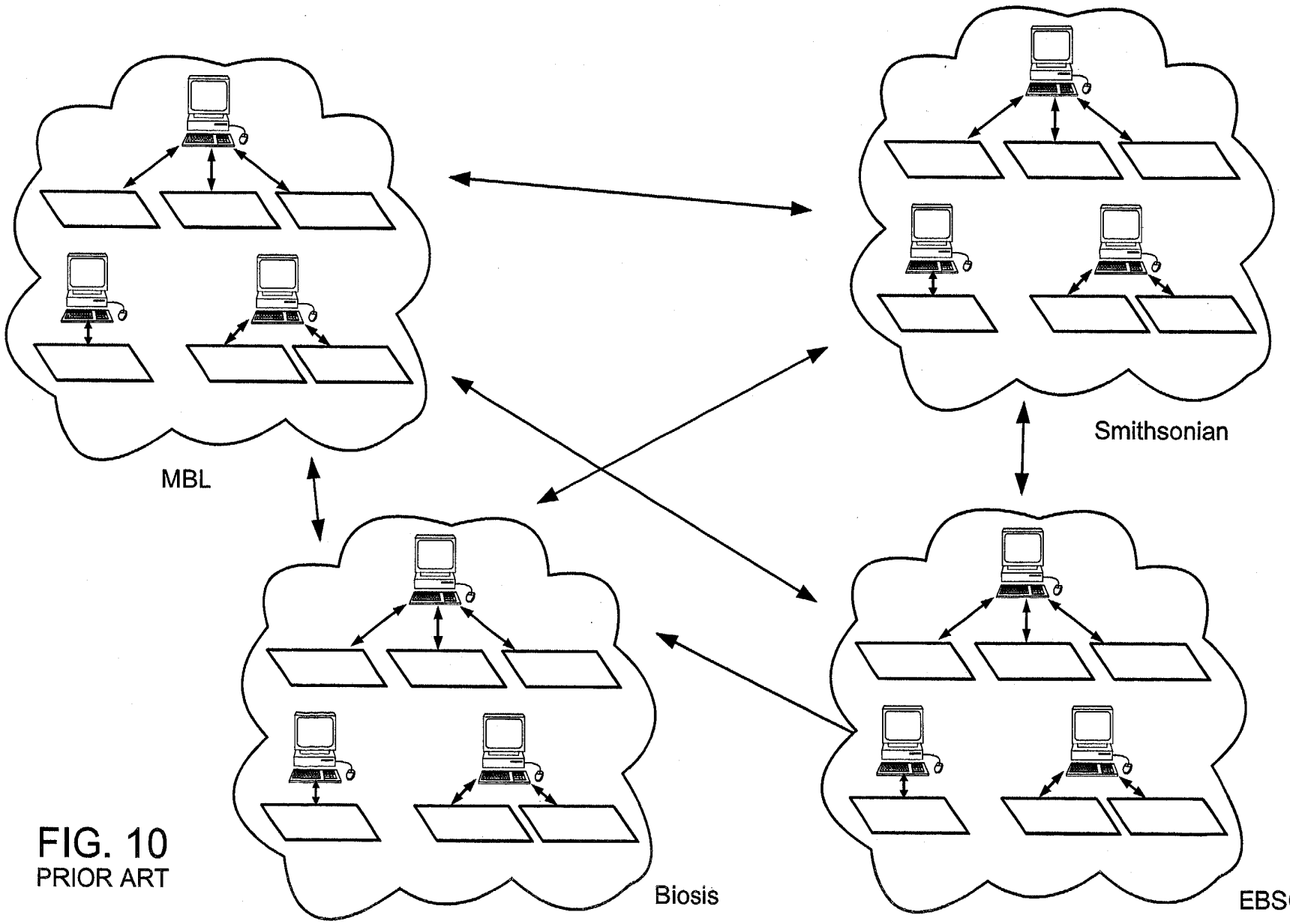


FIG. 10
PRIOR ART

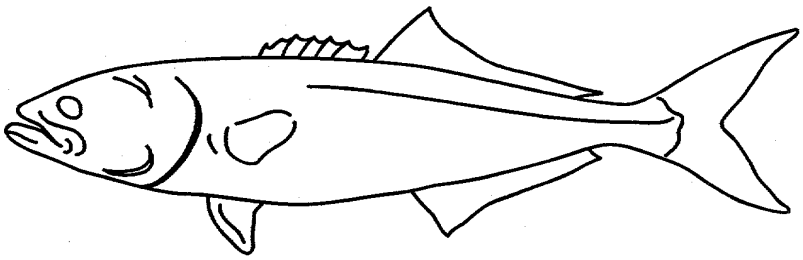


FIG. 11

Patterson
. Organisms
... Eukaryote
..... Opisthokonts
..... Choanoflagellates And Animals
..... Metazoa
..... Chordata
..... Vertebrata
..... Gnathostomata
..... Osteichthyes
..... Actinopterygii
..... Perciformes
..... Pomatomidae
..... Pomatomus
..... Pomatomus saltator

Margulis
Animalia
.Chordata
..Craniata
... Gnathostomata
..... Osteichthyes
..... Actinopterygii
..... Perciformes
..... Pomatomidae
..... Pomatomus
..... Pomatomus saltator

FIG. 12

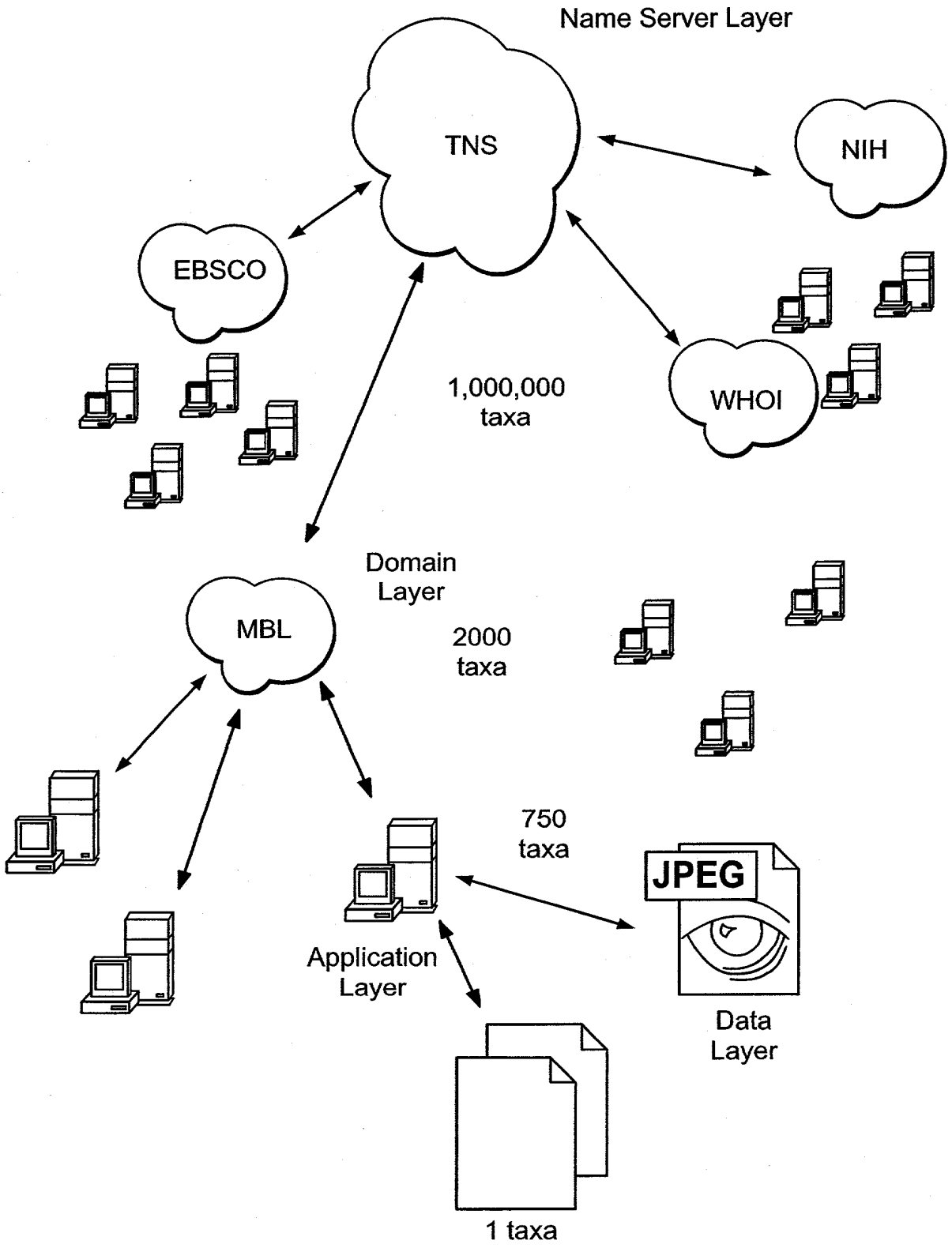

Name Server Layer
TNS
NIH
EBSCO
WHOI
1,000,000
taxa
Domain
Layer
MBL
2000
taxa
750
taxa
JPEG
Application
Layer
Data
Layer
1 taxa

FIG. 13

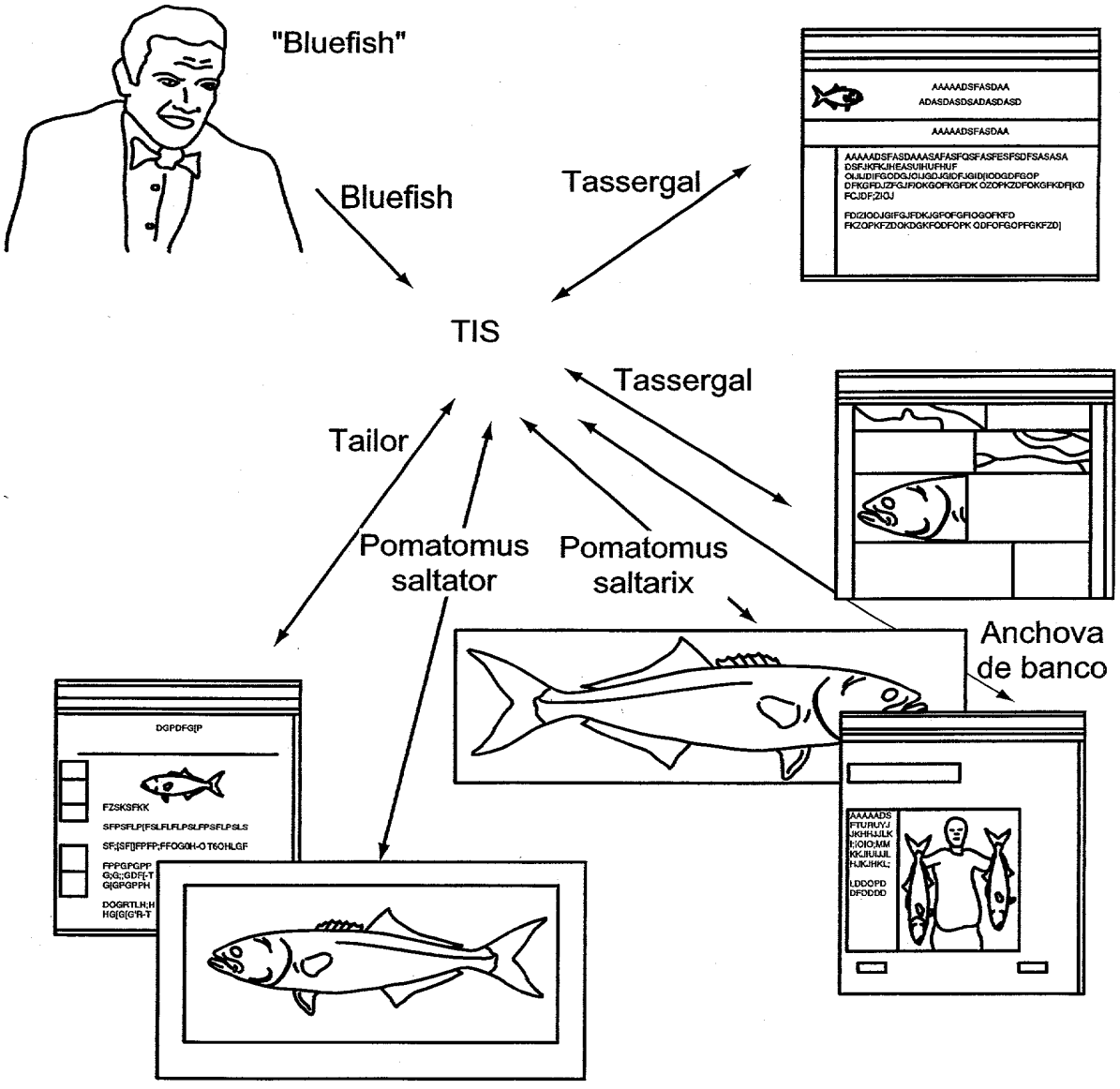

"Bluefish"
Bluefish
Tassergal
TIS
Tassergal
Tailor
Pomatomus saltator
Pomatomus saltarix
Anchova de banco

FIG. 14

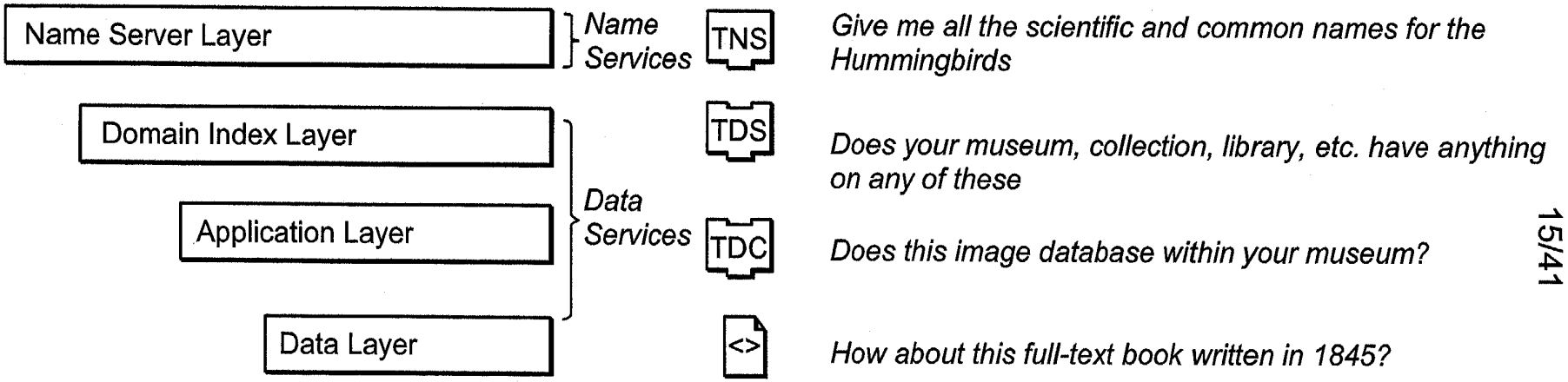

Name Server Layer
Name Services
TNS
Give me all the scientific and common names for the Hummingbirds
Domain Index Layer
TDS
Does your museum, collection, library, etc. have anything on any of these
Application Layer
Data Services
TDC
Does this image database within your museum?
Data Layer
<>
How about this full-text book written in 1845?

FIG. 15

Scientific names for the bluefish, *Pomatomus saltator*
Cheilodipterus heptacanthus
Cheilodipterus saltatrix
Chromis epicurorum
Gasterosteus saltatrix
Gonenion serra
Lopharis mediterraneus
Perca lophar
Pomatomus pedica
Pomatomus saltator
Pomatomus saltatrix
Pomatomus skib
Scomer sypterus
Sparactodon nalnal
Sypterus pallasii
Temnodon conidens
Temnodon saltator
Temnodon tubulus

Other names
Bluefish (FAO/English)
Tassergal (FAO/French)
Anjova (FAO/Spanish)
Sinikala (Finnish)
Blaufisch (German)
Gofári (Greek)
Pesce serra (Italian)
Amikiri (Japanese)
Anchova (Portuguese)
Plitica (Serbo-Croat)
Strijelka skakusa (Serbo-Croat)
Lüfer (Turkish)
Blue-fish (English)
Anchova (Portuguese)
Bluefish (AFS/English)
Shad (English)
Elf (English)
Tekwaya (Arabic)
Tekwa (Arabic)
Tasergal (Polish)
Teleskopabborre (Swedish)
Dyphavsabbor (Norwegian)
Enchova (Portuguese)
Tailor (English)
Skipjack (English)
Anchova de banco (Spanish)
Elwe (Afrikaans)

FIG. 16

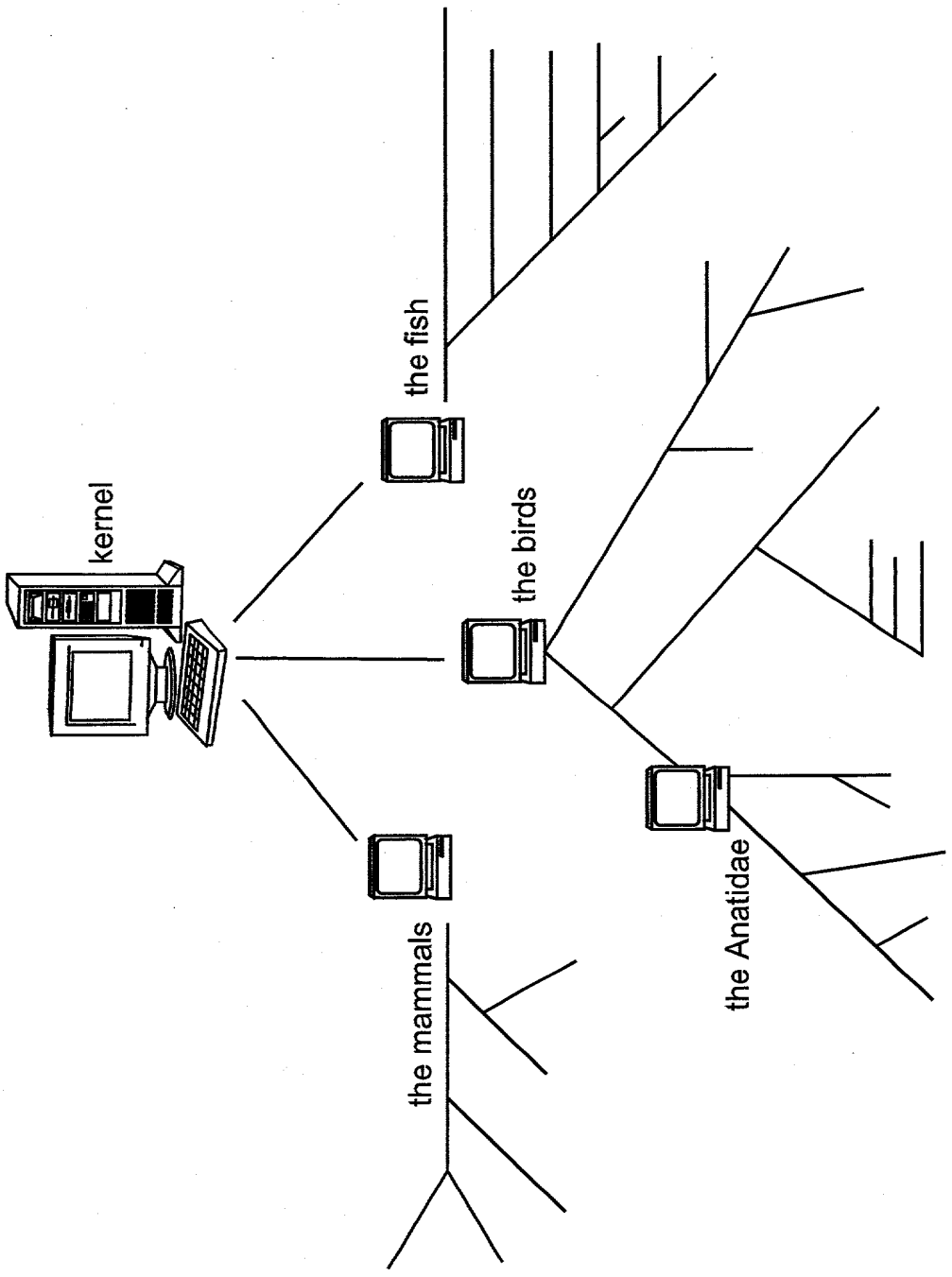


FIG. 17

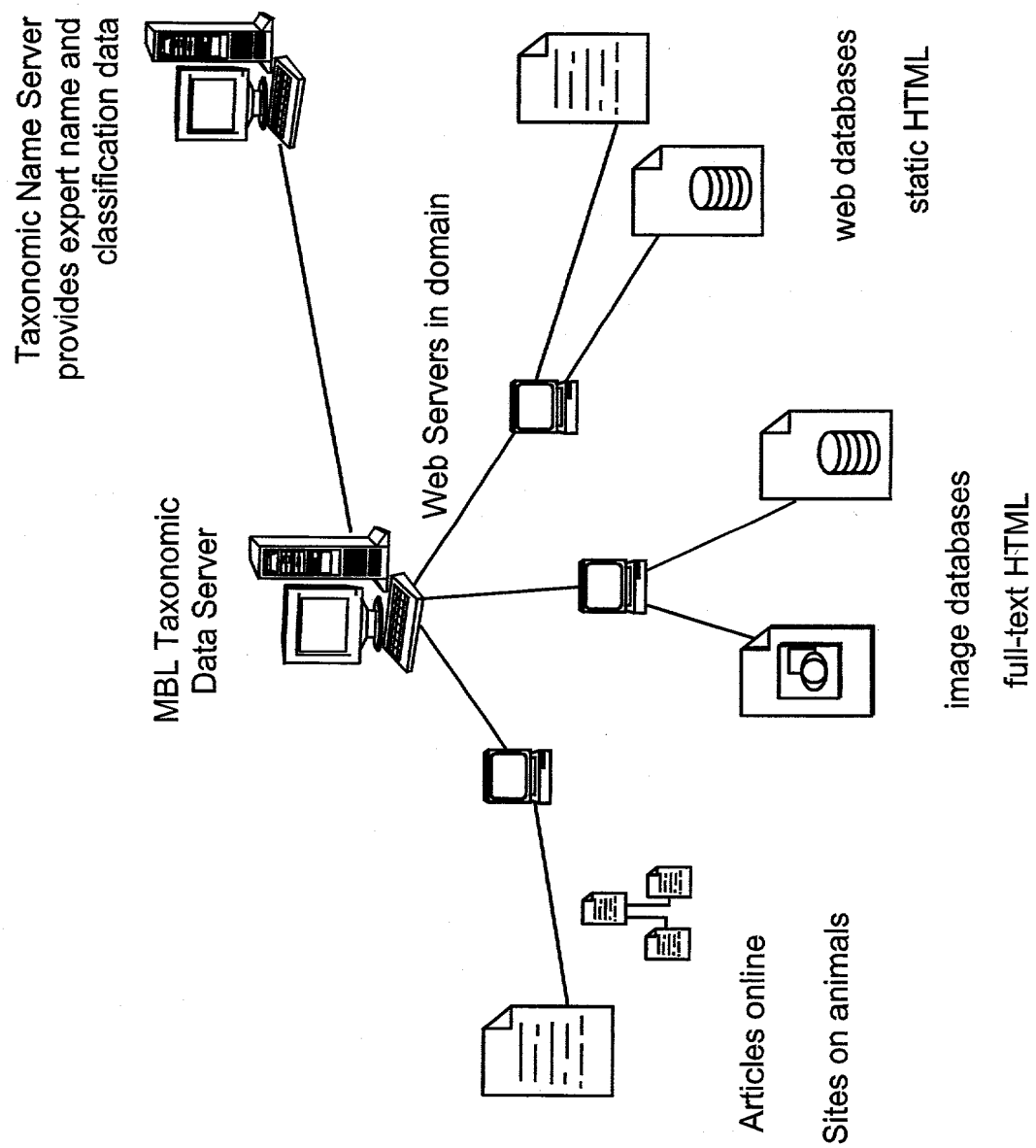

Taxonomic Name Server
provides expert name and
classification data
MBL Taxonomic
Data Server
Web Servers in domain
web databases
static HTML
image databases
full-text HTML
Articles online
Sites on animals

FIG. 18

Function name	What it does
classifications();	returns the canonical list of classifications from the name server
me($myID,$d,$type, $l)	returns the name of entity myID according to the type attribute provided
name_types($d);	returns a $d delimited array of n ame types such as "English,French,ICZN-Current, Synonym, Misspelling, etc.
chroot($myID, $classification)	sets the name server root of the application to $myID. Sets parent of myID to zero. Allows developers of taxa specific applications to only use relevant parts of the classification
names($myID,$d, $order,$l)	returns an ary delimited by string, $d
children($myID,$d, $classifcation,$type, $order,$l)	returns an array of the children on $myID according to the classification $classification. Other options include the name type to return, sort order, etc.
parent($myID,$d, $classifcation,$type, $order,$l)	Ancestry of $myID with many output options
list_my_children ($myID)	A recursive function for dumping tree information.
get_name($myID, $name_type, $date,ref)	Return a specific name for a taxa such as the French form or the currently accepted name or a junior synonym.
classify($myID, $classification, $length)	Returns an array of ancestry for a given classification to a given number of steps relative to the taxa. A length of 0 returns to the tree root.
names($myID, $fields)	Returns an array of all names for a given taxonomic entity. Fields returned in the array can be specified.
dump($myID, $delimiter,$fields, $classification)	Dumps from myID down in spreadsheet form
pad($myID,$s, $class,$root) -	Delimiters used to pad the taxonomic level type. Ex (pad (AR201,"=-","1C",5) outputs "=-=-=-=-=-=-" because according to classification "1C" this entity (a genus) would be indented six places to correspond to the six levels from the starting point of level "5" (corresponding to "Phylum") from the root of classification 1C.

FIG. 19

MARINE BIOLOGICAL LABORATORY

MBL HOME directory site map search

Marine Animals at the MBL

Find

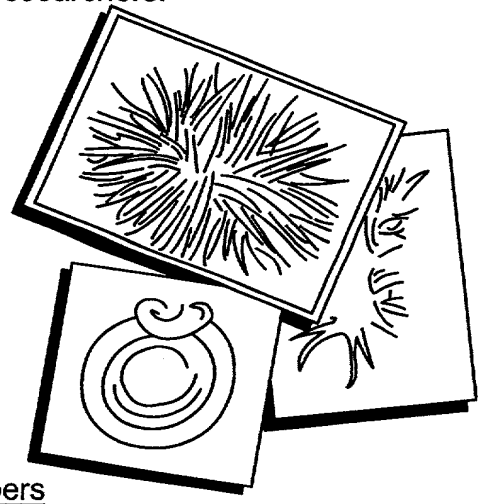
.... **Metazoa** ->>

..... Annelida Segmented Worms
..... Arthropoda Joint-legged animals
..... Bryozoa Moss Animals
..... Chaetognatha Arrow Worms
..... Chordata Vertebrates and allies
..... Cnidaria Coelenterates
..... Ctenophora Comb Jellies
..... Echinodermata Spiny-skinned Animals
..... Hemichordata Acorn Worms
..... Mollusca Mollusks
..... Nemertea Ribbon Worms
..... Platyhelminthes Flatworms
..... Porifera Sponges
..... Sipuncula Peanut Worms

Expand from Metazoa down. (560 taxa)

This program uses the Taxonomic Name Server for name authority information.

This database represents approximately 200 species of marine organisms available in our Marine Resources Center and collected by the Aquatic Resources Division. Most of these organisms are available for purchase by qualified educational institutions and researchers.



Server numbers

Click on grouping at left for a listing of species

FIG. 20

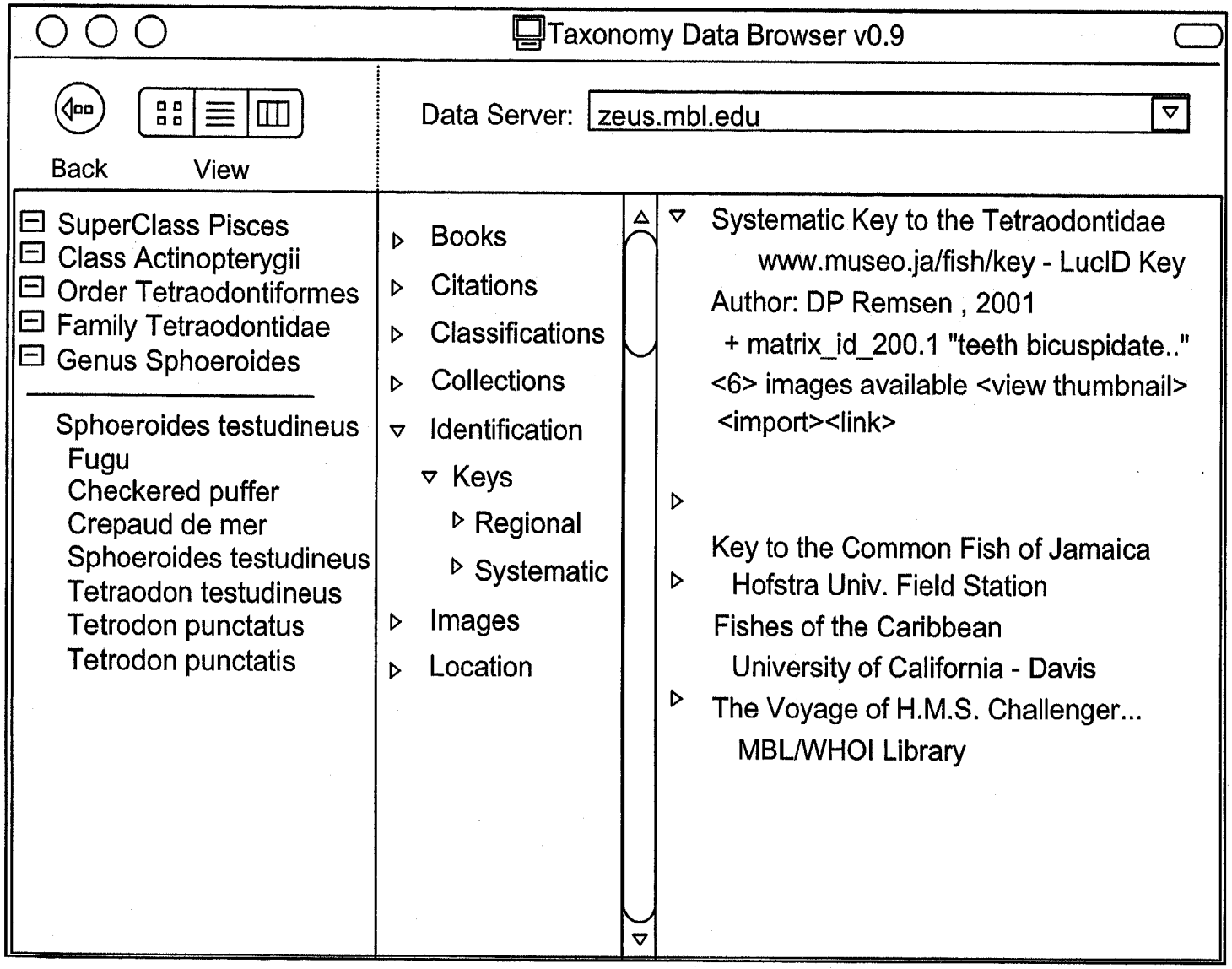

Taxonomy Data Browser v0.9
Back
View
Data Server: zeus.mbl.edu
SuperClass Pisces
Class Actinopterygii
Order Tetraodontiformes
Family Tetraodontidae
Genus Sphoeroides
Sphoeroides testudineus
Fugu
Checkered puffer
Crepaud de mer
Sphoeroides testudineus
Tetraodon testudineus
Tetrodon punctatus
Tetrodon punctatis
Books
Citations
Classifications
Collections
Identification
Keys
Regional
Systematic
Images
Location
Systematic Key to the Tetraodontidae
www.museo.ja/fish/key - LucID Key
Author: DP Remsen , 2001
+ matrix_id_200.1 "teeth bicuspidate.."
<6> images available <view thumbnail>
<import><link>
Key to the Common Fish of Jamaica
Hofstra Univ. Field Station
Fishes of the Caribbean
University of California - Davis
The Voyage of H.M.S. Challenger...
MBL/WHOI Library

FIG. 21

SUMMARY OF RESULTS

Cythere crispata, Brady. Obtained also at Station 187 and Port Jackson.
" *cymba*, Brady. Obtained also at Station 233B, 15 fathoms.Recorded from Hong Kong.
" *goujoni*, Brady. Obtained also at Station 187 and Port Jackson.
" *darwini*, Brady Obtained also at Station 233B, 15 fathoms.Recorded from Java
" *cribriformis*, Brady Obtained at no other locality by the Challenger.
Loxoconcha sinensis, Brady Obtained also at Station 233B, 15 fathoms. Recorded from Hong Kong.
Bythocythere orientalis, Brady Obtained also in Torres Strait.
Cytherella cingulata, Brady Obtained also at Stations 187, 189, and Port Jackson

MACRUHA (Spence Bate, Zool. pt 52).
Alpheus rupax, Fabricius. One specimen (10 fathoms): obtained at no other locality by the Challenger.
Nauticaris unirecedens, n.g., n.sp. One specimen; obtained at no other locality.

ANOMURA (Henderson, Zool. pt. 69)
Spiropagurus spiriger (De Haan), One spicemen in the shell of *Pleurotoma* (10 fathoms); for distribution see Torres Strait.
Porcellana serratifrons, Stimson. One specimen (10 fathoms); obtained also in Arafura Sea.
Rephidopus ciliatus, Stimpson. One specimen (10 fathoms); obtained at no other locality by the Challenger. Recorded from Hong Kong.

BRACHYCRA (Miers, Zool. pt. 49)
Neptunas (Amphitrite) hastatoides (Fabricius). Several Specimens (10 fathoms); obtained also at Stations 188, 233B, and Japan.
Goniosoma cruciferum (Fabricius). One specimen (7 fathoms); obtained at no other locality by the Challenger.
Arcunia septemspinosa (Fabricius). Three specimens (10 fathoms) obtained also at Station 233B, 16 fathoms, and Japan.
Leucosia craniolaris (Linué). Two specimens (10 fathoms); obtained also at Stations 188, 190, and Japan.
Dorippe facchino (Herbst). One specimen (10 fathoms); obtained at no other locality by the Challenger.

GASTEROPODA (Watson, Zool. pt. 42).
Pleurotoma (Surcula) tuberculata, Gray. (10 fathoms); obtained also in Arafura Sea.

FIG. 22

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growth

June, whereas the contain only smaller eggs after the early part of July, No individual, however, is actually known to have given birth to two broods in a single summer.

The sand shark, *Carcharias Littoralis*, the most common shark at Woods Hole during the summer, so far as I know, has never been taken during the breeding season all the individuals being apparently imma

FIG. 23

The Bluefish, Pomatomus saltator

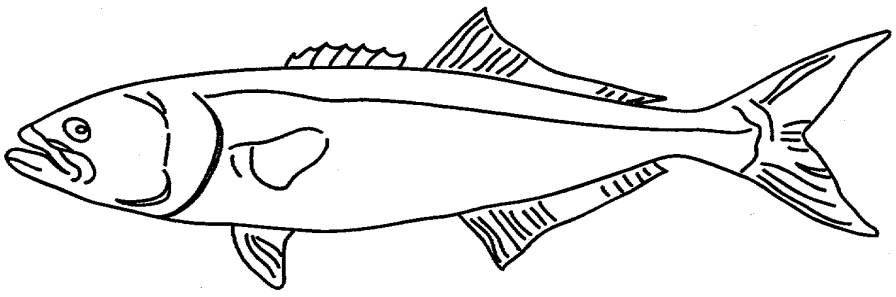


FIG. 24

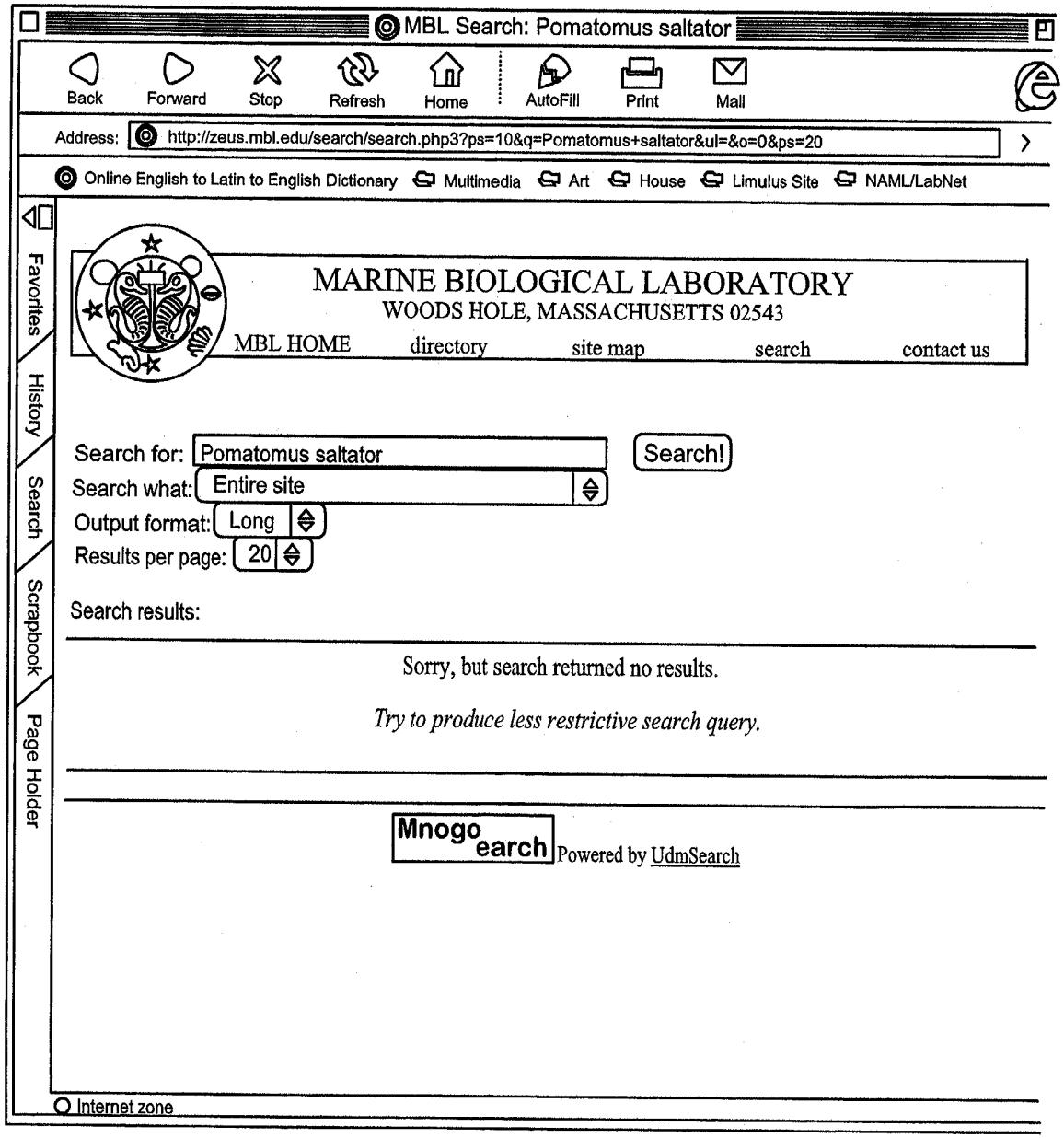
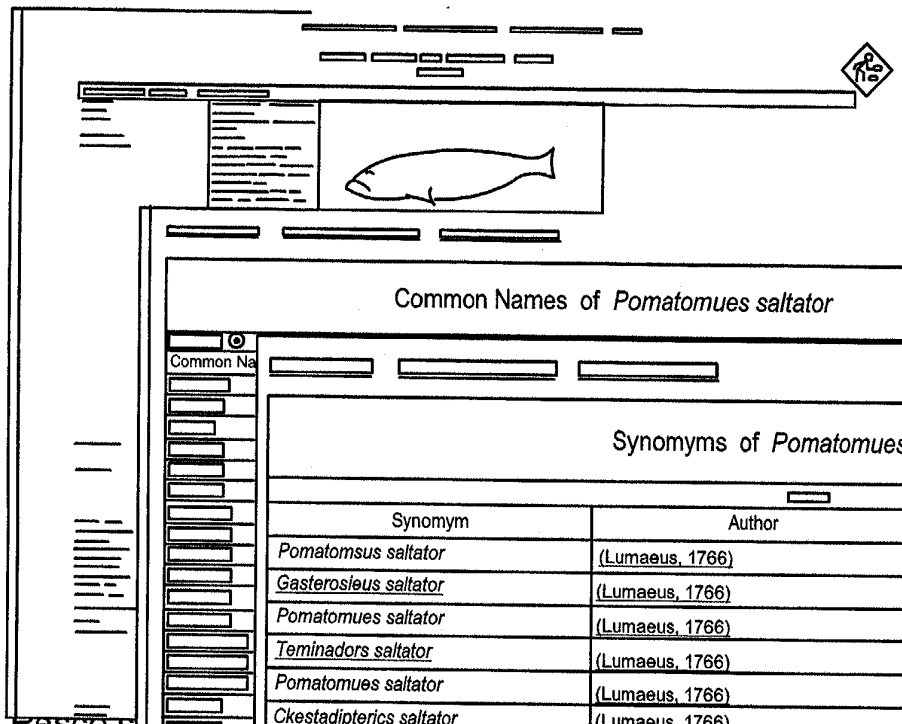

MBL Search: Pomatomus saltator
Back
Forward
Stop
Refresh
Home
AutoFill
Print
Mail
Address: http://zeus.mbl.edu/search/search.php3?ps=10&q=Pomatomus+saltator&ul=&o=0&ps=20
Online English to Latin to English Dictionary
Multimedia
Art
House
Limulus Site
NAML/LabNet
Favorites
History
Search
Scrapbook
Page Holder
MARINE BIOLOGICAL LABORATORY
WOODS HOLE, MASSACHUSETTS 02543
MBL HOME
directory
site map
search
contact us
Search for: Pomatomus saltator
Search!
Search what: Entire site
Output format: Long
Results per page: 20
Search results:
Sorry, but search returned no results.
Try to produce less restrictive search query.
Mnogo earch
Powered by UdmSearch
Internet zone

FIG. 25

www.fishbase.org



Common Names of *Pomatomues saltator*

Common Na

Synomyms of *Pomatomues saltator*

Synomym	Author	Status
Pomatomsus saltator	(Lumaeus, 1766)	misspelling
Gasterosieus saltator	(Lumaeus, 1766)	original combination
Pomatomues saltator	(Lumaeus, 1766)	new combination
Teminadors saltator	(Lumaeus, 1766)	new combination
Pomatomues saltator	(Lumaeus, 1766)	new combination
Ckestadipterics saltator	(Lumaeus, 1766)	new combination
Ferca lophas	Formold, 1775	junior synonym
Ckestadipterics heptocaritkins	Lacepede, 1801	junior synonym
Pomatomues sitrub	Lacepede, 1802	junior synonym
Lapharis mechterranens	Rafresque, 1810	junior synonym
Garrierison serna	Rafresque, 1810	junior synonym
Scamer rypterus	Pallas, 1814	junior synonym
Sypterus pallaris	Eschwalds, 1831	junior synonym
Chronmis spiereroroum	Crinmaw, 1864	junior synonym
Teminadors coniderus	Caeselnau, 1861	junior synonym
Sparactodon nalnal	Rochebrune, 1880	junior synonym
Teminadors tubvulus	Saville Kent, 1893	other

Pesce s
Plitica (
Shad (E
Sinikala
Skipjack
Strijelka skakus
Tasergal (Poli)
Pomatomus sa
Tassergak (Fr)
Tekwa (Arab)
Tekwaya (Arab
Teleskopabborre (Sw)

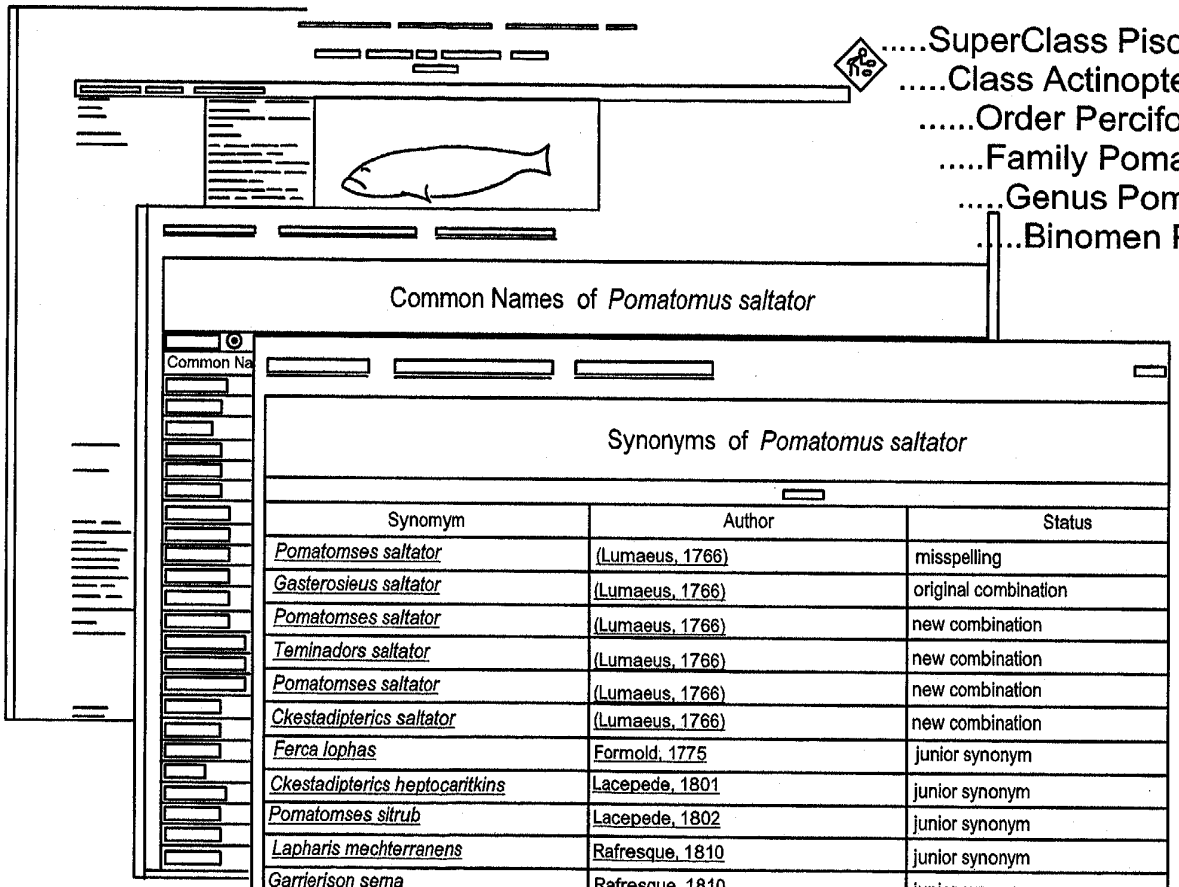
Bluefish (E)
Pomatomus saltator (LVN)
Cheilodipterus heptacanthus (Syn)
Cheilodipterus saltatrix (Syn)
Chromis epicurorum (Syn)
Gasterosteus saltatrix (Syn)
Gonenion serra (Syn)
pharis mediterraneus (Syn)
Perca lophar (Syn)
Pomatomus pedica (Syn)
Pomatomus saltatrix (Syn)
omus skib (Syn)
r sypterus (Syn)
don nalnal (Syn)
us pallasii (Syn)
conidens (Syn)
on saltator (Syn)
on tubulus (Syn)
Chopper (E)
Tailor (E)
napper Blue (E)
Amikiri (Jap)
Ach'ked (Arab)
Anchova (Port)
a de banco (Sp)
Anjova (Sp)
Blaufisch (Ger)
Blue-fish (E)
havsabbor (Nor)
Elf (E)
Elwe (Afri)
Enchova (Port)
Gófari (Gree)
Lüfer (Turk)

FIG. 26

www.fishbase.org

Classification Information

.....SuperClass Pisces
.....Class Actinopterygii
.....Order Perciformes
.....Family Pomatomidae
.....Genus Pomatomus
.....Binomen Pomatomus saltate



Synomym	Author	Status
Pomatomses saltator	(Lumaeus, 1766)	misspelling
Gasterosieus saltator	(Lumaeus, 1766)	original combination
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Teminadors saltator	(Lumaeus, 1766)	new combination
Pomatomses saltator	(Lumaeus, 1766)	new combination
Ckestadipterics saltator	(Lumaeus, 1766)	new combination
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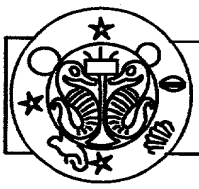
Ckestadipterics heptocaritkins	Lacepede, 1801	junior synonym
Pomatomses sitrub	Lacepede, 1802	junior synonym
Lapharis mechterranens	Rafresque, 1810	junior synonym
Garrierison sema	Rafresque, 1810	junior synonym
Scamer rypterus	Pallas, 1814	junior synonym
Sypterus pallaris	Eschwalds, 1831	junior synonym
Chronmis spiereroroum	Crinmaw, 1864	junior synonym
Teminadors coniderus	Caeselnau, 1861	junior synonym
Sparactodon nalnal	Rochebrune, 1880	junior synonym
Teminadors tubvulus	Saville Kent, 1893	other

FIG. 27



MARINE BIOLOGICAL LABORATORY
WOODS HOLE, MASSACHUSETTS 02543

MBL HOME directory site map search contact us

Search for: Pomatomus saltatrix Search!
Search what: Entire site
Output format: Long
Results per page: 20

Search results:

Displaying documents 1-4 of total 4 found.

1. Macrofauna description [2]
   Description of the Macrofauna in Plum Island Sound Macrofauna are abundant and diverse throughout the Plum Island Sound estuary. Twenty eight species of fish have been recorded in the brackish to marine areas and another 10 from the freshwater portion....
   - http://ecosystems.mbl.edu/PIE/data/HTL/HTLDescription.htm (text/html) Wed, 19 Jul 2000 15:11:39 GMT, 3406 bytes

2. No title [2]
   DATE STATION STATE X STATE Y LAT LON SPECIES TOTAL WEIGHT 23-Sep-1993 HTL-PR-21 247524.8 944832.3 42.75263608 70.91949172 Alosa aestivalis 1 1.2 20-Oct-1993 HYL-PR-21 247524.8 944832.3 42.75263608 70.91949172 Apeltes quadracus 1 0.6 23-Nov-1993 HTL-P...
   - http://ecosystems.mbl.edu/PIE/data/HTL/HTL-PR-Survey.txt (text/html) Wed, 19 Jul 2000 14:53:41 GMT, 174862 bytes

3. No title [2]
   STATION STATE X STATE Y LAT LON SAL SITE NAME SCI NAME 15N 13C 34S HTL-SO-3(Knob) 257402.95 942546.27 42.73139029 70.79906604 30 MID sand shrimp Crangon septemspinosa 10.5 -16.3 8.6 HTL-SO-5(Sub Headquarters) 256334.1 945265.44 42.75594527 70.81184907...
   - http://ecosystems.mbl.edu/PIE/data/HTL/HTL-PR-Isotope.txt (text/html) Wed, 19 Jul 2000 14:18:16 GMT, 8767 bytes

4. No title [2]
   Plum Island Ecosystem Long Term Ecological Research (PIE-LTER) LMER Intercomparison Stable Isotope Data Set Updated 2/14/97 Organic matter Real/measured Forward model stable isotope data Budgets stable...
   - http://ecosystems.mbl.edu/PIE/data/STP/STP-VA-OMInterisotope.txt (text/html) Wed, 19 Jul 2000 15:18:07 GMT, 20535 bytes

FIG. 28

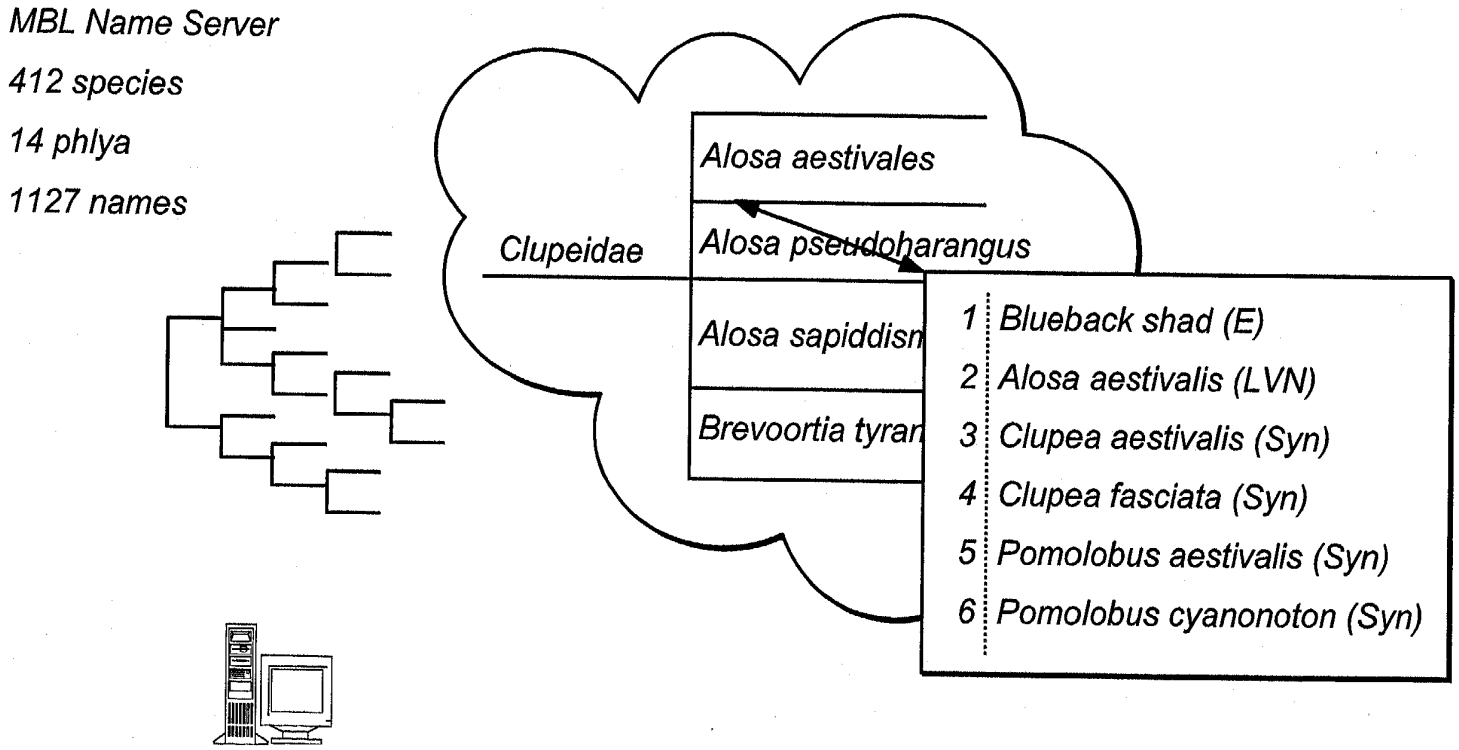

MBL Name Server
412 species
14 phlya
1127 names
Clupeidae
Alosa aestivales
Alosa pseudoharangus
Alosa sapiddisn
Brevoortia tyran
1 Blueback shad (E)
2 Alosa aestivalis (LVN)
3 Clupea aestivalis (Syn)
4 Clupea fasciata (Syn)
5 Pomolobus aestivalis (Syn)
6 Pomolobus cyanonoton (Syn)

FIG. 29

Classification: ICLARM:FishBase

....SuperClass **Pisces**
.....Class **Actinopterygii**
.....Order **Perciformes**
.....Family **Pomatomidae**
.....Genus **Pomatomus**
.....Binomen **Pomatomus saltator**

Names:

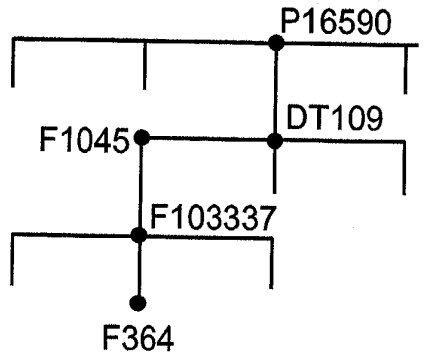
Bluefish (E)
Pomatomus saltator (LVN)
Cheilodipterus heptacanthus (Syn)
Cheilodipterus saltatrix (Syn)
Cromis epicurorum (Syn)
Gasterosteus saltatrix (Syn)
...

Links: *Pomatomus saltator*

MBL
Database of Marine Organisms
The Flescher Slides Collection
The Biological Bulletin Citations Datbase
MRC Catalog of Specimens
Compendium of Eggs and Embryoes
The Teaching Charts of Rudolph Leuckar

FIG. 30

myID	name	type
F364	Bluefish	E
F364	Pomatomus saltator	L
F364	Cheilodipterus heptacanthus	Syn
F364	Cheilodipterus saltatrix	Syn
F364	Chromis epicurorum	Syn
F364	Gasterosteus saltatrix	Syn
F364	Gonenion serra	Syn
F364	Lopharis mediterraneus	Syn
F364	Perca Lophar	Syn
F364	Pomatomus pedica	Syn
F364	Pomatomus saltatrix	Syn
F364	Pomatomus skib	Syn



Classification: C109

myID	myparentID	Entity Description (use currently accepted latin name)	
38631	F364		
59825	F364		
73467	F364		
73482	F364		
73995	F364		
81129	F364		
82464	F364		
87746	F364		
94245	F364		
96363	F364		
96364	F364		
96365	F364		
100411	F364		
101901	F364		
103298	F364		
103504	F364		
103506	F364		
103507	F364		
106382	F364		
106383	F364		
106384	F364		
39257	F3640		
61228	F3640		
77719	F3640		
77720	F3640		
78438	F3640		
41109	F3641		
[illegible]	[illegible]	[illegible]	[illegible]
F7301	F103336	Pomadasys striatus	Pomadasys
F7708	F103336	Pomadasys stridens	Pomadasys
F17426	F103336	Pomadasys suillus	Pomadasys
F27317	F103336	Pomadasys taeniatus	Pomadasys
F27498	F103336	Pomadasys trifasciatus	Pomadasys
F51125	F103336	Pomadasys unimaculatus	Pomadasys
F364	F103337	Pomatomus saltator	Pomatomus
F9187	F103338	Pomatoschistus bathi	Pomatoschistus
F9188	F103338	Pomatoschistus canestrinii	Pomatoschistus
F9189	F103338	Pomatoschistus knerii	Pomatoschistus
F9190	F103338	Pomatoschistus lozanoi	Pomatoschistus
F9191	F103338	Pomatoschistus marmoratus	Pomatoschistus
F1344	F103338	Pomatoschistus microps	Pomatoschistus
F1345	F103338	Pomatoschistus minutus	Pomatoschistus
F1346	F103338	Pomatoschistus norvegicus	Pomatoschistus
F1347	F103338	Pomatoschistus pictus	Pomatoschistus

FIG. 31

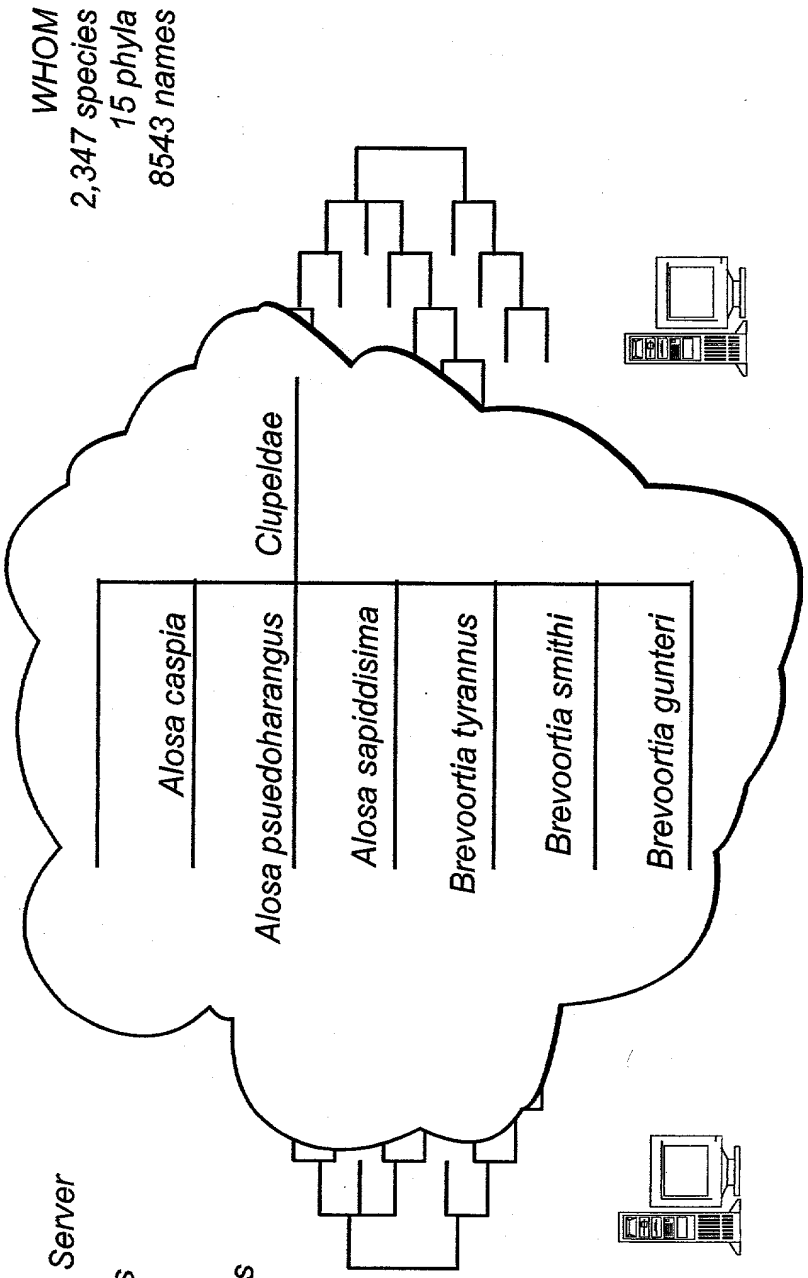

WHOM
2,347 species
15 phyla
8543 names
Clupeldae
Alosa caspia
Alosa psuedoharangus
Alosa sapiddisima
Brevoortia tyrannus
Brevoortia smithi
Brevoortia gunteri
MBL Name Server
412 species
14 phlya
1127 names

FIG. 32

Classification: ICLARM:FishBase

....SuperClass **Pisces**
.....Class **Actinopterygii**
.....Order **Clupeiformes**
.....Family **Cluepeidae**
.....Genus **Brevoortia**
.....Binomen **Brevoortia tyrannus**

Names:
Atlantic menhaden (E)
Brevoortia tyrannus (L)
Clupea carolinensis (Syn)
Clupea menhaden (Syn)
Clupea neglecta (Syn)
Clupea tyrannus (Syn)

Links: *Brevoortia tyrannus*

MBL
Database of Marine Organisms
The Flescher Slides Collection
The Biological Bulletin Citations Datbase
MRC Catalog of Specimens
Compendium of Eggs and Embryoes
The Teaching Charts of Rudolph Leucka?

Woods Hole Oceanographic Institution
Discovery: The Salt Marsh
Mariner Library Catalog
Oceanus Magazine: Oct 1983 Issue
JASON Project, 1997 Fisheries Worldw?
Laboratory of Dr. Peter Cummins

FIG. 33

ASTROBIOLOGY **micro*scope** sites Browse Alphabetical

Find [ ] Find

A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z |

Mallomonas
Marineamoeba
Markshotair
Massistena
Mastigamoeba
Mastigella
Mayorella
Melosira
Merismopedia
Mesodinium
Metacoronympha
Metanema
Metromonas
Micrasterias
Micrachiamys
Microcometes
Microhabitat
Microscape
Mite
Mite
Monas
MONOCERCOMONADINAE
Mothscale
Motilebact
Motilebactdet

found 4 images matching Massisteria

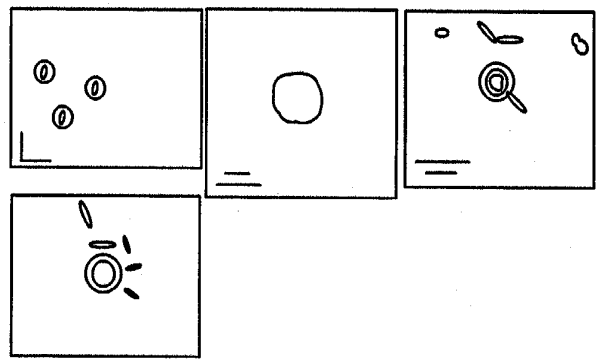


FIG. 34

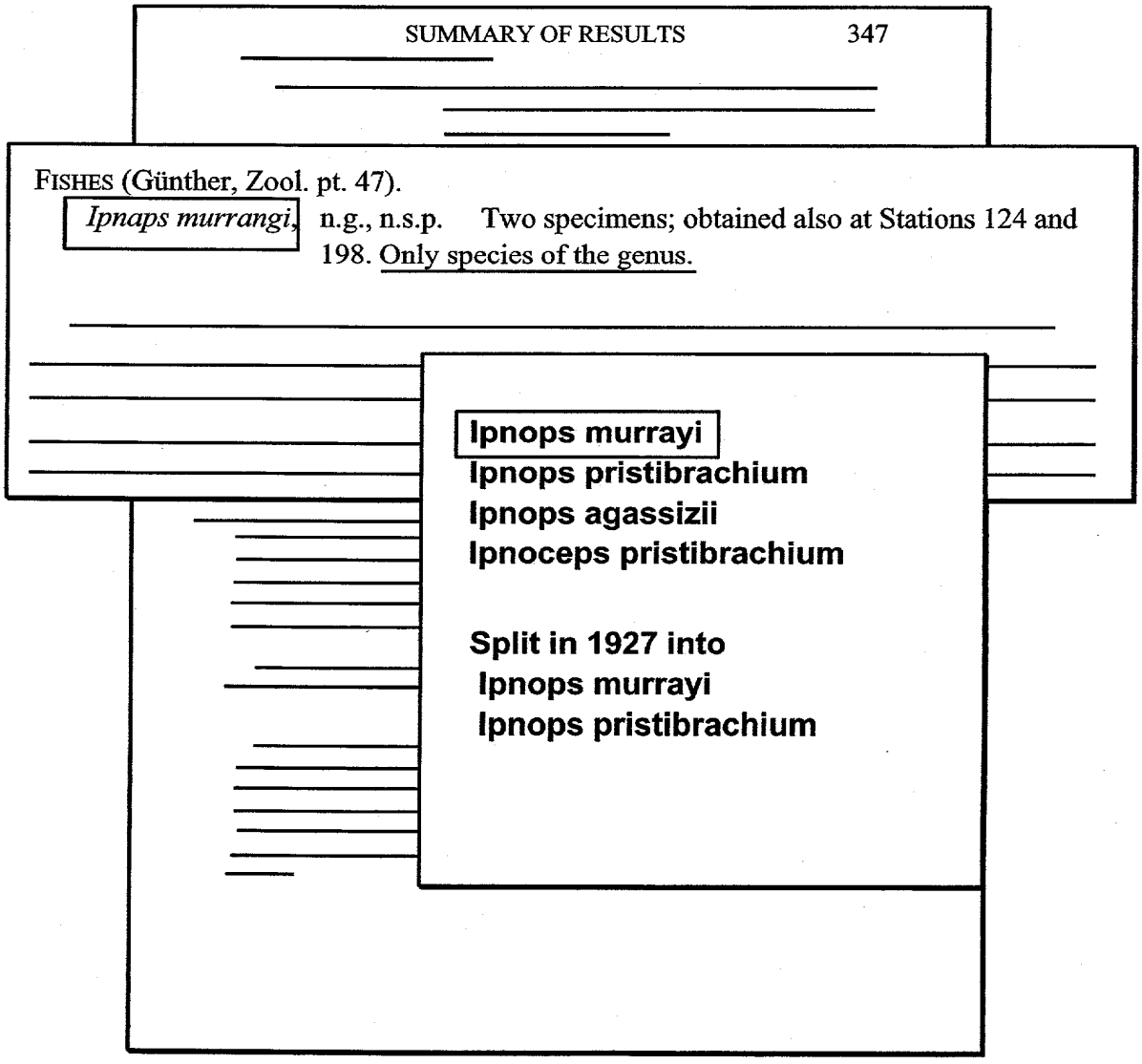

SUMMARY OF RESULTS 347
FISHES (Günther, Zool. pt. 47).
Ipnaps murrangi, n.g., n.s.p. Two specimens; obtained also at Stations 124 and 198. Only species of the genus.
Ipnops murrayi
Ipnops pristibrachium
Ipnops agassizii
Ipnoceps pristibrachium
Split in 1927 into
Ipnops murrayi
Ipnops pristibrachium

FIG. 35

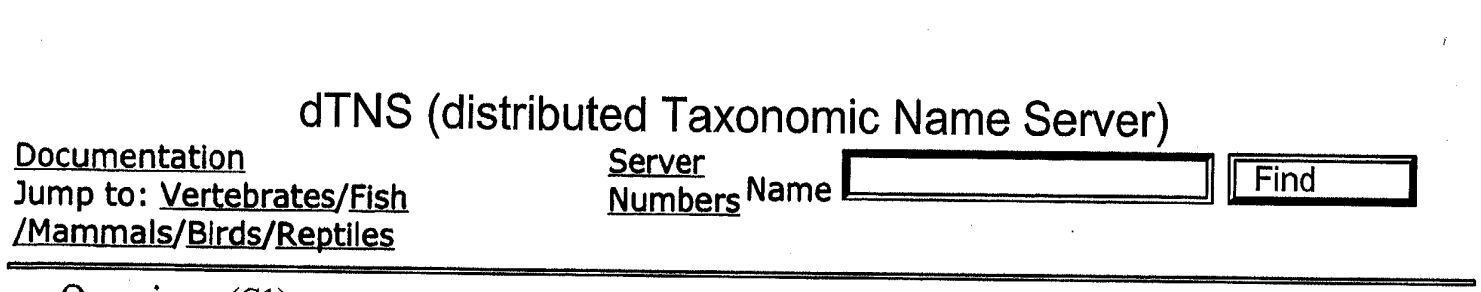


FIG. 36A

FIG. 36A
FIG. 36B
FIG. 36C

FIG. 36

Cheilodipterus saltatrix (Syn)
Chromis epicurorum (Syn)
Gasterosteus saltatrix (Syn)
Gonenion serra (Syn)
Lopharis mediterraneus (Syn)
Perca lophar (Syn)
Pomatomus pedica (Syn)
Pomatomus saltatrix (Syn)
Pomatomus skib (Syn)
Scomer sypterus (Syn)
Sparactodon nalnal (Syn)
Sypterus pallasii (Syn)
Temnodon conidens (Syn)
Temnodon saltator (Syn)
Temnodon tubulus (Syn)
Chopper (E)
Tailor (E)
Snapper Blue (E)
Tassergal (FR)
Anjova (Sp)
Sinikala (Fi)
Blaufisch (Gr)
Gofári (Gk)
Pesce serra (It)
Amikiri (Jp)
Anchova (Pr)

FIG. 36B

Plitica (SC)
Strijelka skakusa (Serb)
Lüfer (Tk)
Blue-fish (E)
Anchova (Pr)
Shad (E)
Elf (E)
Tekwaya (Ar)
Tekwa (Ar)
Tasergal (Po)
Teleskopabborre (Sw)
Dyphavsabbor (No)
Enchova (Pr)
Skipjack (E)
Anchova de banco (Sp)
Elwe (Af)

Data Views:
explode

Level: species

Delimiter: :

SQL outputs: parent/child & columns :
Pending

FIG. 36C

Various output formats served by the Name Server layer via a Taxonomic Name Server

A table of all names and their qualifiers tns -nq "Name/Qualifier" -t-name "Pomatomus saltatrix"		A string containing the preferred name tns -pv -name "Pomatomus saltatrix" -s	A table with a specified list of taxa levels and the preferred name tns -c,pv,l "Kingdom,Phylum,Class,Order,Family, Genus,Species" -name "Pomatomus saltatrix"		The full ICZN classification with "##" as a delimiter tns -c,pv,a -name "Pomatomus saltatrix" -l-t##
Name	Qualifier		Kingdom	Eukaryota	EUKARYOTES##Living_Organisms Kingdom##
Bluefish	(E)	Pomatomus saltator	Phylum	Chordata	SubKingdom##OPISTHOKONTS ParvPhylum##Metazoa
Pomatomus saltator	(L)		Class	Actinopterygii	Phylum##Chordata Subphylum ##Vertebrata
Cheilodipterus heptacanthus	(Syn)		Order	Perciformes	Superclass## Gnathostomata Class##Osteichthyes
Cheilodipterus saltatrix	(Syn)		Family	Pomatomidae	subClass##Actinopterygii SuperClass##Pisces
Chromis epicurorum	(Syn)		Genus	Pomatomus	Class##Actinopterygii Order##Perciformes

FIG. 37A

Various output formats served by the Name Server layer via a Taxonomic Name Server			
Gasterosteus saltatrix (Syn) Gonenion serra (Syn) Lopharis mediterraneus (Syn) Perca lophar (Syn) Pomatomus pedica (Syn) Pomatomus saltatrix (Syn) Pomatomus skib (Syn) Scomer sypterus (Syn) Sparactodon nalnal (Syn) Sypterus pallasii (Syn)		Species saltator or the same table with common English names tns -c,ce,l "Kingdom,Phylum,Class,Order,Family, Genus,Species" -name "Pomatomus saltatrix" -t: Kingdom: EUKARYOTES Phylum: Animals with Backbones Class: Ray-finned Fish Order: Perches and Allies Family: Bluefish Family Genus: Bluefish Species: Bluefish	Family##Pomatomidae Genus##Pomatomus Species##saltator

FIG. 37B

Various output formats served by the Name Server layer via a Taxonomic Name Server				
Temnodon conidens	(Syn)			
Temnodon saltator	(Syn)			
Temnodon tubulus	(Syn)			
Chopper	(E)			
Tailor	(E)			
Snapper Blue	(E)			

FIG. 37C

ENTITYID NAME URL
AR1001 POMATOMUS SALTATRIX HTTP://ZEUS.MBL.EDU/AD.PL?
ZT7801 STENOBOMUYS CHRYSOPS HTTP://WWW.MBL.EDU/ANIMA
.....
.....
.....

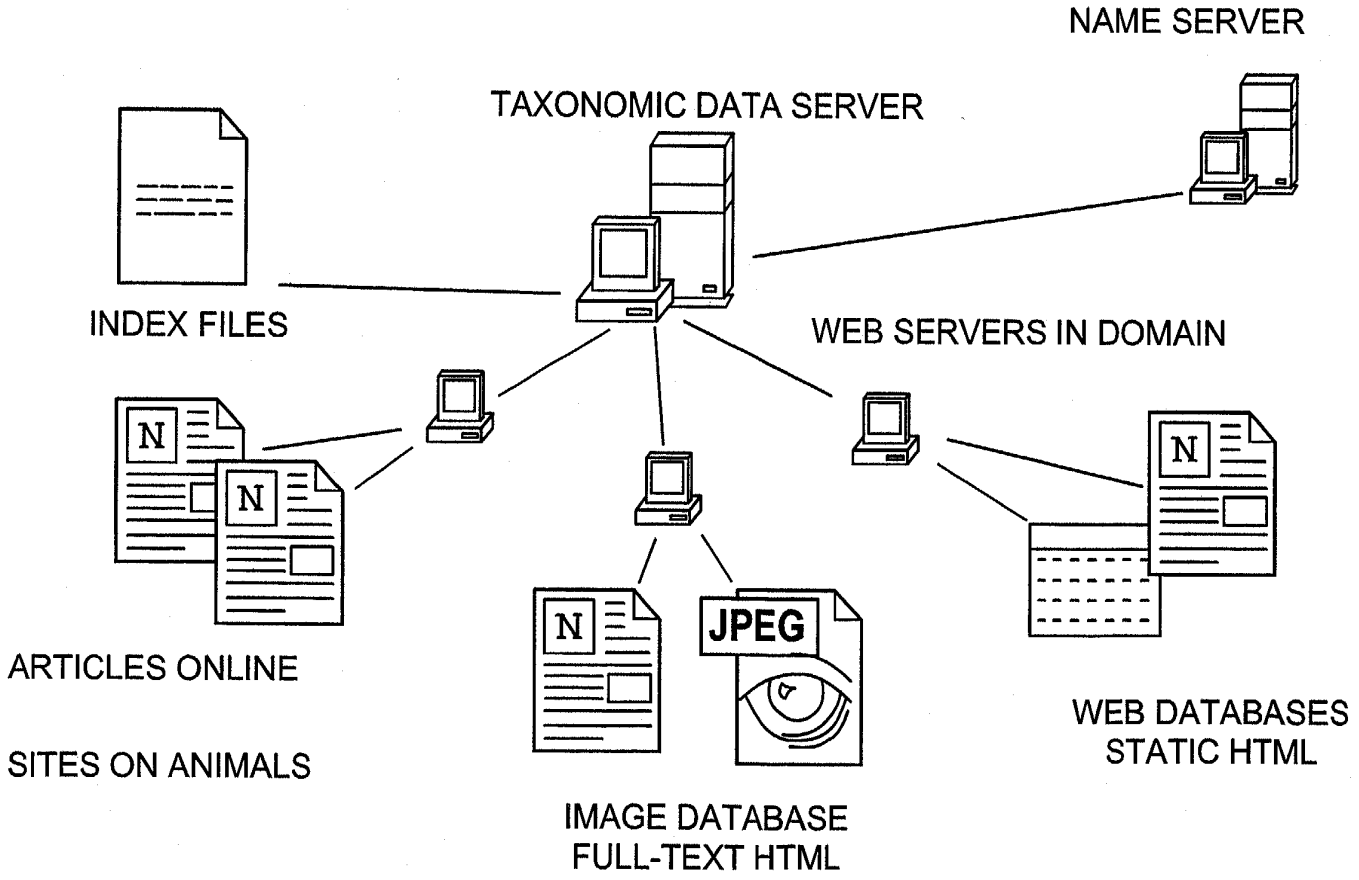


FIG. 38